

DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper and Prices Current on
Chemicals, Drugs, Colors, and Aromatics

VOLUME XIV

NEW YORK, FEBRUARY 27, 1924

NUMBER 9

Calco and Dimethylaniline

USED separately, each of these words is a name of decided importance in the fields of coal-tar chemistry; together, they designate a product with which every consumer of dimethylaniline should be familiar.

Together, as Calco Dimethylaniline, they describe an important intermediate that has been developed by long and careful research and is being produced on a large scale with strict adherence to the most exacting manufacturing operations.

That the quality of Calco Dimethylaniline has been recognized by dyestuff consumers is evidenced by the successful development of the basic colors in which it is used. The merit of Calco Dimethylaniline can be proven to you by the results of a trial in your own factory. Isn't it worth your time to investigate this?

We are ready to co-operate fully and invite your inquiries on this product.

THE CALCO CHEMICAL COMPANY

Bound Brook, N. J.

New York
Boston



Philadelphia
Chicago

In This Issue { *Percy C. Magnus on Import Freight
Trade Fairly Good, Says Coolidge*

Coumarin Monsanto

THAT delicacy—that characteristic odor—that true flavor so much desired in aromatics and flavors, is only obtained by long plant experience, where manufacturing details have been perfected.

COUMARIN-MONSANTO
VANILLIN-MONSANTO
have these qualities.

Their aroma and true flavor invariably command the preference of the discriminating consumer.

May we receive your inquiries covering your immediate or future requirements of Coumarin • Vanillin • Methyl Salicylate

Monsanto Chemical Works
St. Louis, U.S.A.

NEW YORK

CHICAGO

MONSANTO



**DOW**

Dow Acetyl Salicylic Acid

Granulation, 10% Starch

For Direct Feeding to Tablet Machines

DOW SALICYLATES

Acetyl Salicylic Acid, N. N. R.

Acetyl Salicylic Acid

Granulation, 10% Starch

Salicylic Acid, U. S. P.

Sodium Salicylate, U. S. P.

Salol, U. S. P.

Methyl Salicylate, U. S. P.

Strontium Salicylate, U. S. P.

Ammonium Salicylate, U. S. P.

Magnesium Salicylate

This Dow Product needs no further preparation. It is already used and endorsed by several large pharmaceutical manufacturers. We offer this product to the trade in general and recommend it for the many advantages it has over plain Acetyl Salicylic Acid, some of which are: saving in time and overhead, better finished tablets, and permanency, that is, no deterioration on account of making a moist granulation.

TRY THE NEW PRODUCT

DOW ACETYL SALICYLIC ACID

Granulation, 10% Starch

A representative sample will be mailed to you upon application and your orders for spot shipment or on contract are solicited for the new product as well as other Dow Salicylates.

This product illustrates the increasing good service rendered by DOW.

THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN, U. S. A.

Branch Sales Offices

90 West St., New York City

Second and Madison Sts., St. Louis



"NATIONAL"
RUBBER
ACCELERATORS

DIPHENYLGUANIDINE
TRIPHENYLGUANIDINE
THIOCARBANILIDE
ANILINE OIL

THESE "National" organic materials are manufactured specifically for the rubber trade.

Their superior qualities, such as *Absolute Commercial Purity, Maximum Strength, Fineness of Division, and Uniformity*, are assured by rigid specifications and inspection controlling their manufacture.

National Aniline & Chemical Co., Inc.

40 Rector Street

New York, N. Y.



DRUG & CHEMICAL MARKETS

Published Every Wednesday by

DRUG & CHEMICAL MARKETS, INC.

Williams Haynes, President

Ira P. MacNair, Secretary

F. F. Burgin, Treasurer

Publication Office

3 PARK PLACE, NEW YORK, U.S.A.

Telephone 0440 Barclay

Cable Chemmarket

Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879.

SUBSCRIPTION RATES

United States, Cuba and Mexico, \$4.00 a year; Foreign \$5.00 a year, payable in advance. Current Copies, 10 cents. Back Copies, 25 cents. A Binder for this Journal @ \$1.00 Postpaid.

VOLUME XIV

NUMBER 9

The Week in Brief

News

Chesebrough Mfg. Co. will declare 100 per cent stock dividend when stockholders approve a new issue.

Government officials threaten to withdraw the privilege allowed importers of crude drugs to reclean consignments that do not meet the standard required.

Surveys of business conditions made by Government departments, banks and commercial agencies show improvement in basic industries.

Tariff Commission finds difficulty in obtaining production costs on chemical products, on which a change in the tariff rate is sought under the flexible tariff provisions.

A decree for \$1,700,000 has been entered in favor of the Government in the suit to recover the value of the Old Hickory Powder Plant property near Nashville, Tenn. The settlement does not affect the indictments for fraud against United States officials and others who engineered the sale.

Markets

Arsenic easier in view of the recent lack of demand and desire to move stocks. Metal derivatives stronger as tin, lead and copper prices advance. Bleaching powder and chlorine firm at the recent advance.

Higher prices for benzol and toluol are expected owing to active demand and continued strength in gasoline market. Imported phenol expected to relieve the present scarcity of phenol.

Further advances are expected in olive oil. Linseed oil demand has been gaining and prices are stronger. Stearic acid moving well. Tallow market stronger on small stocks.

Essential oils show strength especially for shipment. Oil peppermint is higher on spot. Oil Bourbon geranium has advanced 10 per cent for shipment.

The crude drug market has developed additional scarcities, and prices on these items have advanced.

Fine chemicals are generally quiet, although citric and tartaric acids appear to have been in heavy demand from consuming quarters.

MATHIESON Chemicals

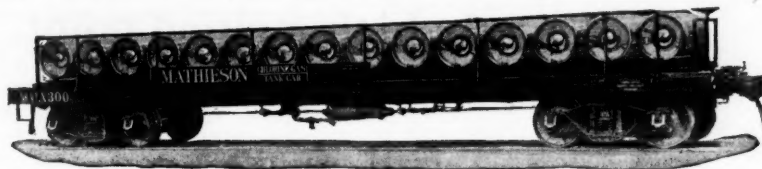
Can You Read Between the Lines?

THE Mathieson Multi-Unit Chlorine Tank Car has been approved by the Interstate Commerce Commission. Our specially designed car carrying fifteen one-ton containers of Liquid Chlorine, instead of a single fifteen-ton tank, is now entitled to the same freight rates and privileges as other tank cars.

To the Pulp and Paper Industry, the Petroleum Refining Industry and other large consumers of Liquid Chlorine this decision means official approval of a tank car construction ideally adapted to the safe, economical and convenient use of this commodity. The Multi-Unit Car with its individually-weighted containers of exactly two thousand pounds net, provides an accurate unit measure for preparing uniform bleach liquor. In checking and stock-taking there is never any uncertainty as to the quantity of Liquid Chlorine received or on hand.

Over two years ago we voluntarily went to the expense of designing and placing in service the Multi-Unit Tank Car. Upon refusal of the railroad companies to allow us tank car rates, we appealed to the Interstate Commerce Commission for removal of this discrimination, and continued making shipments in our special car. We have assumed all excess freight charges on every movement of this car and during the past two years have paid out over two hundred thousand dollars in order that consumers and the general public might enjoy the many advantages realized in this type of equipment. The recent ruling of the Commission awards us full reparations with interest and completely vindicates our faith in the Multi-Unit "Safety First" principle.

To those who will read between the lines, the story of the Mathieson Multi-Unit Tank Car will exemplify the sound, constructive policy that has made us the leaders in the Chlorine Industry.



The **MATHIESON ALKALI WORKS Inc.**
25 WEST 43rd STREET NEW YORK CITY

PHILADELPHIA
PROVIDENCE

CHICAGO
CHARLOTTE

Deal Direct with

the Manufacturer

Bicarbonate of Soda
Liquid Chlorine-Caustic Soda



Sesquicarbonate of Soda
Bleaching Powder-Soda Ash

FOR IMMEDIATE SHIPMENT

CRUDE CRESYLIC ACID

97-99% Straw Color

95% Dark

HYDROCARBON OIL

**A neutral oil for
Disinfectant Manufacture**

CHIPPED NAPHTHALENE

**Particularly high melting point
for Dyestuffs Manufacture]**

The *Barrett* Company

40 Rector Street



New York, N. Y.

DRUG & CHEMICAL MARKETS

VOLUME XIV

NEW YORK, FEBRUARY 27, 1924

NUMBER 9

SIGNS OF BETTER BUSINESS

Business showed signs of improvement during the first week in February, especially in car loadings of merchandise freight which increased by more than 10,000 cars over the preceding week. Generally considered a fair indication of business conditions in different sections of the country, the merchandise loadings indicate much larger shipments this year than in February, 1923, there being an increase of 19,500 cars during the first week of February over the corresponding period last year. Loadings of miscellaneous freight also increased, and the record for this year is unprecedented. In the Central Western district only was a decrease in total freight car loadings of all commodities reported. This was due to decreases in ore loadings and coke loadings which are usually large in this district. Traffic for 1923 as a whole broke all records for freight handled, but in December there was less business than in the corresponding month of 1922. Now shipments are again on the increase.

An upward turn in the iron and steel industry was evident during December and January, and unfilled orders of the United States Steel Corp. increased in December for the first time in nine months. Automobile plants are preparing for increased business in 1924. Rubber tire makers report enlarged production with a decrease in stocks to the lowest point since January, 1922. Definite improvement is seen in the hide, leather and shoe markets. The paper trade has gradually improved and exports of paper and paper products increased in value by approximately \$1,500,000 over 1922, although the quantities exported were less in 1923. The demand for plate glass from builders and automobile manufacturers during 1923 taxed the producers to capacity and imports were heavier than they have ever been.

In all these consuming industries there are signs of better business which is certain to be reflected in the chemical markets this Spring. Many consumers had stock on hand which they used while awaiting more positive evidence of better conditions; and others have been buying in small lots pending the taking of inventories. With favorable reports from the Federal Reserve Board, the Department of Commerce, and commercial agencies renewed confidence is felt in the outlook. The railroads reflect the increasing activity as well as the bank loans for commercial purposes.

These facts have so impressed members of President Coolidge's Cabinet that the matter has been drawn to his attention and a public announcement

says that the President let it be known that in his opinion the country is in a healthy condition; that there is no unemployment and that everything manufactured is finding a ready market.

THE OXALIC ACID MARKET

Prices for oxalic acid have reached the point where there is nothing in the business for American manufacturers, of whom there are two, and for foreign producers who desire to sell their goods in this market. One American maker retired from the field about six months ago, unable to continue in business on the present price scale. At eleven cents, the biggest American producer admits that he is losing money, but also states that he is in the business to stay and will continue to produce at capacity. His expressed desire is that the low price of oxalic,—not compared to pre-war, but compared to present cost of labor and materials—would induce a marked increase in its consumption. By winning back some consumers who took to substitutes during the war-days of high oxalic prices, a big tonnage with a narrow profit margin may be worked out.

At eleven cents, foreign goods do not seem able to compete in the United States. With perhaps a 6½¢ price in the interior of Germany, a cent in freight, insurance, and storage, and a four cent duty, the laid down price in America is about 11½¢. This, of course, may represent the figures or may not, for, with an appeal before the Tariff Commission for a two cent duty in behalf of foreign producers, the truth would not likely come out if actual costs in Europe were under 6¢ per pound. As against foreign costs, something in excess of 12¢ is the estimated cost in this country.

The position of the oxalic buyer to-day is apparently quite safe and certain. The American makers have dipped prices under those of holders of imported stocks and except for occasional concessions to special customers by always-ready cutters, the price appears likely of better stabilization. Of course, odd lots are likely to come on the market occasionally and make the situation uncertain—that is, make it appear weak when in reality this might not be the case. The fact that the American producers now apparently control the situation seems to point to stability. At the same time, the consumer who believes that he can buy any chemical or other raw material under production cost over a long period of time, must eventually be dis-

illusioned. A fair price with a fair profit to the manufacturer must come in time, be it in oxalic acid or a pair of shoes, and in reality, this is the condition which always best serves the consumers' interests in the long run.

TRUE VALUE OF RESEARCH

The chemical laboratory of a large merchandising company in Chicago has been abolished, practically, and the company is dependent again upon the salesmen of the manufacturers of merchandise and no longer will attempt to check up by chemical analyses the statements made by representatives or in printed matter. Commenting on the change, the "Chemical Bulletin," published by the Chicago Section of the American Chemical Society says:

"Such a step seems particularly deplorable in view of the rapidly increasing appreciation by many concerns of the value of a chemical laboratory in actual dollars and cents. An illustration of what a corporation, either alone or in co-operation with its competitors, can do with a chemical staff, is to be found in the plan carried out by the American Institute of Baking; not only does the Institute maintain a general laboratory whose findings are eagerly made use of by the supporting baking concerns, but many of these concerns have placed their technical control in the hands of chemists of their own. In times of industrial depression we may perhaps understand why a group of men who have invested their money in a business may be sorely tempted to take the risk of curtailing research and control work, dangerous as such a policy may be; but to dispense with a valuable adjunct of the business when the dividend envelopes are fat and satisfying, appears not only dangerous, but foolhardy."

Perhaps the laboratory in question found the statements of salesmen so truthful that the chemical tests proved unnecessary. It is seldom that established institutions that have built up reputations by producing reliable goods misrepresent them in the printed matter sent out, nowadays. False statements in advertising are not numerous now that publishers have set their faces against printing misleading announcements. Even brokers who handle questionable goods have learned that it is not safe to make false claims, especially in states where a jail sentence is the penalty. The "Chemical Bulletin" is right when it speaks of the value of research and there is no doubt that manufacturers of products in which chemicals are used are tending more and more toward the ideal method of placing chemists in control of production to see that the conditions of manufacture are right and the materials pure.

Increased imports of certain colors in January has only one significance—greater consumption of these dyes by the textile industry, over and above the domestic production. The situation indicates that the dye industry in this country has room to expand in many directions where markets are ready to absorb further output. The U. S. Tariff Commission reports that only two dyes in a selected

list were made in the United States in 1914, whereas today more than thirty of these colors are now manufactured here.

"Off again, on again, Flannigan" applies now to the German-British dye agreement. After various statements to the effect that the announcement was premature, that the British Board of Trade had not agreed to it and that the Germans considered it all arranged to the satisfaction of the German Dye Cartel, comes another story that it is all off, never to be taken up again. Is this a ruse to quiet the opposition in England? Only time and Dr. Duisberg can tell.

Many Men: Many Minds

Approximately \$75,000,000 has been saved to the American people by the campaign started in this country to offset the plans of the British rubber interests to advance the price of crude rubber through curtailment of production, says Harvey S. Firestone, Akron tire manufacturer. As a result of his efforts field parties were sent to the Philippines, the Amazon Valley, Central America and the Far East. "The results of the various activities are very gratifying," said Firestone today. "We now realize the fact more than ever that our efforts were well worth while. Figuring the tonnage of rubber imported in 1923 at the price paid, compared with the price ruling before our campaign caused the drop, we find that the people of America saved fully \$75,000,000 in one year."

Commenting editorially on the German-British dye agreement, the New York "Journal of Commerce" says: "Traders and independent manufacturers (in England) are greatly alarmed over the prospect and are registering formal protests. They fear that the arrangement may result in a monopoly not only of the importing business but also of the domestic manufacture and distribution of dyes. Such fears are a tribute to German technical skill which will be placed at the disposal of the British Dyestuffs Corp., for it is admitted that the British concerns cannot make dyes as cheaply as the Germans can and that some colors cannot be obtained at all."

"The responsibilities of a manufacturer go further than the mere sale of his products to wholesalers and retailers. The welfare of a manufacturer requires the elimination of trade friction. If some retailers, by means of special discounts, are able to force the small dealers to sell at less than a fair profit, the harmony of the distribution system is disrupted and the manufacturer ultimately suffers. If the present tendency of unfair competition continues to grow, the present system of distribution of trade-marked articles will totter and fall," says, G. B. Moxley, president of National Wholesale Druggists' Association.

Melvin A. Taylor, president, First Trust and Savings Bank, Chicago, expresses fear of over-expansion of business. He says the building industry and railroad development are evidences of it. There is no justification, he says, for continuing the building program at the rate it has been going for eighteen months. Rents remain high but there are vacant apartments in Chicago. The railroads have been buying equipment, and the tonnage of a million cars a week has been incentive to the purchases, but borrowing money on the assumption that the tonnage will be further increased may lead to trouble and perhaps to disaster.

Who Always Pays the Import Freight?

*An Interview With Percy C. Magnus
Brings Forth Some Plain-Spoken Advice
to All Buyers of Essential Oils
and Crude Drugs from the Head
of Magnus, Mabee & Reynard, Inc.*



EVERY buyer wants, naturally enough, to buy at the lowest possible cost. Every seller wants to sell at a good profit. And Socrates certainly spoke a fundamental truth when he said that "nobody else can feel much pain over my toothache." Nevertheless it is not less true that no business transaction can be successful which is not profitable to both buyer and seller. I do not expect the consumers of essential oils, crude drugs, and like products to lose sleep over the troubles of the importers of these products. But I do know that the conditions under which the importers have to do business have direct bearing upon the cost of these raw materials. A little better understanding on both sides would be mighty profitable to all concerned.

What the Buyer Expects

Consumers look to the importers for three things. First, there must be adequate stocks on hand in this country to take care of manufacturing requirements. It is the importer's business to maintain these stocks. Second, the buyers look to importers to maintain certain standards of quality which trade custom or the law holds to be standard. The success of the importer in his business depends very vitally upon the upholding of these standards. Third, the purchaser looks to the importer for advice and information on market conditions. Obviously, the importer is in a position to render this delicate and complicated service, and it is good business for him to do so.

Performing this threefold function gives the importer of these products, which come from every quarter of the globe, a unique place in American business. His work is necessary; but—and this is often misunderstood—he must do his work under peculiar conditions which make his whole business policy different from that of the manufacturer, or the jobber, or the broker.

Maintaining Stocks

The importer is expected to maintain stocks. This means that he must buy ahead of actual consuming demand. He must, moreover, buy in far distant markets. He must pay for these goods when he takes them in—sometimes sixty days before they arrive in this country—and after stocking them he must sell them, often extending considerable time credits.

The market for almost all these natural products fluctuates sharply. The price in New York today is subjected to many, many influences, most of which are entirely beyond the control of the importer. Weather conditions in India affect a crop. The exchange value of the pound, the franc, the lire, even the vanishing mark must always be reckoned with. A revolution in Cen-

tral America or a bandit raid in North China changes the price. The reliability of a shipper in Java; the funds in the banks at Marseilles; credit conditions in Spain; a plague in the Straits Settlements; all of these and many other outside factors affect market conditions. These may seem fanciful examples, but they are all things which to our knowledge have been directly reflected in the prices of various products which we handle. The importer must buy stocks today for future delivery and still more future sale and yet he must discount all of these factors. The very foundation upon which his business is built is a highly speculative one.

Upholding Quality Goods

It is an axiom throughout these trades that if an importer is not willing to put his whole business in jeopardy he must maintain trade standards of quality. However severe the price competition, he dare not let the goods that go out under his name fall below those standards. If the buyer is not going to put the quality of his own wares in jeopardy he, on his side, dare not go into the byeways of the trade to pick up too-tempting bargains, else he will surely get goods below standard.

Some goods are famous for sophistication—or rather, infamous for it. The reputations of certain shipping ports are not very savory. Let us mention no names, for the buyers have learned to beware. In all cases the best protection of the buyer is the reputation of the seller.

Advising the Purchaser

Authentic and current information from primary markets is difficult to obtain. Nevertheless, it has naturally devolved upon importers to advise buyers of market conditions. Quite as naturally buyers take such advice with sometimes more than a grain of salt. Fuller and franker understanding and better confidence would be beneficial. The importer is certainly not infallible; but he is usually sincere in his suggestions, for he appreciates well that if his customers do not profit out of their purchases from him, they will get their supplies elsewhere. Last spring, and again last fall, consumers were advised that vanilla was going higher. Few heeded this advice. There were numerous warnings of the debacle in citronella oil last fall. The olive oil situation has been forecast. I know men who buy and sell stocks and bonds on the advice of reputable brokers, and who have found by bitter experience that it is wisest not to be guided by every Wall Street rumor and every wild-cat selling circular that comes to their desk; but who completely reverse this system when buying essential oils.

It is a chancy and costly business to bring these pro-

ducts to the market; to maintain stocks here; to keep up quality standards in a price competitive market; to serve buyers with expert market information. It requires trained experience, connections all over the world, considerable capital investment. Many other costs over and above the price quoted in primary markets must be covered before the importer begins even to make a fair profit. These costs are increased by the buyer who shops sharply among the byeways of the trade. These costs can best be cut down by direct dealing with established importers who have a reputation at stake which is an asset in their business that they value too highly to put in jeopardy.

TO USE ASSOCIATION STATISTICS (Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 27.—The Department of Commerce has issued a statement in regard to the publication of statistics received from trade associations, which says:

"The Department of Commerce will continue to publish its monthly Survey of Current Business, in connection with which it has been receiving information and statistics from various associations. For the purposes of this and other publications and the performance of other duties imposed upon it by law, the department will, from time to time, request associations to furnish it with such statistics as may be necessary or convenient for its purposes. The information which associations furnish will be used, within the limits of department appropriations and facilities, in the publications to the extent that it proves suitable.

"The department is not at present in a position to distribute the information received otherwise than through its publications.

"The department does not express any views as to the legal status of any association from which it receives the information, or any approval of its activities."

"MACS" TO RUN SALESMEN'S PARTY MAR. 17

C. F. McKenna, Federal Phosphorus Co.; Frank L. McCartney, Monsanto Chemical Works; J. C. McKenna, W. F. George Chemicals, Inc.; Frank J. McDonough, Norvell Chemical Co., not all of whom, however, can be classified as "Irish," will compose the committee to run a St. Patrick's party, March 17, for the Salesmen's Association of the American Chemical Industry, New York. In spite of the fact that a little Scotch has inadvertently become mixed up with the committee, a typical "Paddy party" is being planned. A speaker, who will talk on "Business in 1924," has not yet been announced.

At the meeting at the Builders Exchange, New York, on Feb. 19, a strong address on the place of bodily and mental health as a sales asset, was given by Alvin Hunnsicker, president, Standard Textile Products Co., one of the biggest consumers of chemicals in America. Short addresses by John Boyer, Mathieson Alkali Works, and F. L. McCartney, Monsanto Chemical Works, followed. About 75 members and guests were present.

Exports of merchandise from the United States to Germany during 1923 amounted to \$316,837,544 which is an increase of \$723,667 over 1922, according to reports of the Department of Commerce. In 1923, Germany stood third in imports of copper from this country, having received 135,930,884 pounds, or 19 per cent of the total export.

Celluloid Co. will build an addition to the Newark, N. J. plant.

Trade Notes and Personals

Washington and Lee University, Lexington, Va., is to build a chemical laboratory, costing \$150,000.

A. V. H. Mory has been appointed director of publicity of the Bakelite Corp., New York.

A. E. Shea, broker in chemicals and intermediates, formerly at 256 Broadway, has removed to 120 West 42nd st., telephone, Bryant 5360.

J. H. McNulty, president of Pratt & Lambert, Buffalo, varnish makers, sailed recently for a tour of France and Italy.

Leonard A. Yerkes, president of du Pont Fibre Silk Co., has been elected director of E. I. du Pont de Nemours & Co. in place of J. A. Haskell, deceased.

S. P. Howell, of the United States Bureau of Mines, addressed the Engineers' Club at San Francisco recently on "Liquid Oxygen Explosives."

Associated Color & Chemical Co., with D. F. Driscoll and H. P. Ford in charge, has opened offices at 590 Howard st., San Francisco.

Mallinckrodt Chemical Works, St. Louis, Mo., has recently issued a small booklet on "Potato Diseases Prevented by use of Corrosive Sublimate."

Baird & McGuire have purchased a tract of land at Switzer ave. and Wabash tracks, St. Louis, on which will be erected a plant for the manufacture of cresol and coal tar products.

Frank P. Sanders, of the New York office of H. J. Baker & Bro., was in Baltimore for several days last week, conferring with the branch office and making the rounds of the trade.

Claude Douthit, formerly with Procter & Gamble, has been proposed for director of the American Hide and Leather Co., to be elected at the annual meeting of the stockholders on March 5.

N. Townsend Thayer, formerly with E. M. Sergeant Co., New York, is now connected with the heavy chemical division of E. I. du Pont de Nemours & Co. at Newark, N. J., as salesman.

Adam Pfromm, formerly vice-president of the N. W. D. A. and head of Adam Pfromm & Co., Philadelphia, recently died at his home. He was in his seventy-sixth year and was born in Hesse, Germany.

H. J. Rolls, Buffalo, N. Y., chemical house, has changed the name of the organization to Rolls Chemical Co., effective March 1. The offices will remain at 481 Ellicott Square Building, Buffalo.

New Jersey Zinc Co., has founded a fellowship at Lehigh University for research in science and technology. The donation amounted to \$15,000, the income from which will go to the holder of the fellowship who must be a graduate of the University.

"Fighting Rust with Sublimed Blue Lead," is the title of a seventy-three page book published by The Eagle-Picher Lead Co., Chicago. The 36,000,000 tons of finished steel used annually in the United States has to be covered in order to be protected from the ravages of corrosion.

Old Hickory Suit Settled for \$1,700,000

Criminal Conspiracy Charges Against Everly M. Davis, A. W. Phillips, and E. C. Morse to Be Prosecuted. No Evidence of Fraud on the Part of the Nashville Industrial Corp.

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 27.—A settlement of \$1,700,000 in favor of the Government has been obtained by decree of the U. S. District Court at Nashville in the suit against the Nashville Industrial Corp., involving the Old Hickory Powder Plant, the Department of Justice announces. Indictments charging criminal conspiracy in the Old Hickory case are pending in the Supreme Court of the District of Columbia against Everly S. Davis, A. W. Phillips and E. C. Morse. Morse was director of sales in the War Department at the time. Acting with others Morse bid successfully for the property. Their rights afterwards were assigned to the Nashville Industrial Corp.

The Government's investigation into the sale of the powder plant disclosed no evidence of fraud on the part of those now interested in the property, the Department of Justice announced, and no indictments were returned against any of them.

Of the \$1,700,000, \$1,000,000 is to be paid in cash, and the balance in three deferred payments extending over a period of two years. The deed for the property is retained in escrow until the entire balance is paid but the custody of the property is turned over to the corporation. Settlement of the case brings the total amount recovered by prosecution of alleged war frauds to \$6,000,000.

The Old Hickory Powder Plant, which was constructed by the DuPont Engineering Co. in 1917-1918 and cost the government \$85,000,000 to build, is located eight miles from Nashville, Tenn., and is the largest powder factory in the world. About ninety million pounds of smokeless powder are stored there at the present time and the rights of the government in regard to the storage of this powder and other property on the premises are retained by the government by the terms of the decree.

Because of the questionable circumstances surrounding the original bid, as well as the making of the contract of sale, and the disputes between the government and the purchaser as to the amount actually due on the sale and the meaning of the terms of the contract, the Attorney General instituted suit in July, 1923, to set aside the sale. The contentions he set forth in his action were, that the original bid had been accepted through fraudulent collusion on the part of the Director of Sales; that the price was inadequate; that the contract of sale did not conform to the terms of the bid; and that the contract of sale itself was in such ambiguous terms as to require the interpretation of a court of equity. Upon the institution of Mr. Daugherty's suit, receivers were appointed upon his motion to have custody of the property pending the outcome of the litigation.

At the time of the institution of the suit the purchaser had paid approximately \$2,000,000 of the purchase price, and was claiming allowances of credits of approximately \$700,000 more, which it alleged it was entitled to under the contract of sale. The government, however, had claims of approximately \$210,000 above the base purchase price. The major portion of purchaser's claims were for property alleged to have been removed from the premises by the government after the sale was effected, and for the storage of government property.

Following the institution of the government's suit

negotiations were opened by the Nashville corporation looking to a settlement without trial, and after prolonged conferences the Attorney General, and the entire executive personnel of the War Transactions Section of the Department of Justice, agreed upon the terms which are embodied in the decree just entered in favor of the government.

The settlement has received the approval of the War Department. Under the terms of the decree the receivers of the court in charge of the property are to be discharged and the custody of the property turned over to the corporation. All costs of the litigation are decreed against the defendants.

NEW YORK LEADING CHEMICAL PORT

Production in Sixty Mile Area Is 20 Per Cent of Entire Chemical Output of United States

The influence of New York harbor as an assembling and distributing point for the chemical industry is discussed in a report by the Committee on Regional Plan of New York and its Environs, written by Dr. Mabel Newcomer, associate professor of economics at Vassar College. The report says in part:

"For the most part, both raw materials and the finished product are of low value for their weight and bulk. Cheap water transportation is consequently of great importance. The raw materials are obtained from scattered sources, many of them from foreign countries, and the harbor constitutes in many cases a cheap and convenient assembling point.

"The future of New York as a center for heavy chemicals rests on a double basis: First, the advantages of this harbor compared with other available harbors, and second, the capacity of the marketing area to absorb heavy chemical products. If the facilities of this harbor are such as to give it an advantage over other available harbors, the industries using heavy chemical products will be furnished their supplies at a favorable price and will themselves be stimulated. If, on the other hand, there are other and higher uses to which the facilities of the New York harbor and region may be put, the competition for sites will raise the costs and tend to force the heavy chemical industry to other harbors."

The report says that although the region contains less than 10 per cent of the total population of the country it is now producing close to 20 per cent of the chemical output of the United States.

The preliminary work in the drafting of a plan for the Region of New York is being carried on under a committee headed by Frederic A. Delano and including Robert W. DeForest, John M. Glenn, Dwight W. Morrow, Frank L. Polk, Frederic B. Pratt, and Lawson Purdy. The Economic and Industrial Survey is being directed by Robert Murray Haig and Roswell C. McCrea, professors of business economics at Columbia University. Copies of the report are available at Russell Sage Foundation Building, 130 East 22nd st., New York.

Movement of fertilizers in the South in 1924 will exceed 1923 according to the Car Service Division of the American Railway Association. The traffic in January and February, however, failed to meet expectations. This delayed movement will put an unusually heavy burden on the carriers in March and April, and, if this traffic is delayed until those months, it will probably cause a severe car shortage.

TARIFF COMMISSION HAS DIFFICULTY IN OBTAINING PRODUCTION COSTS

Foreign Manufacturers Refuse to Allow Agents to See Their Books—Progress Made in Investigations Under Flexible Tariff Provisions—Several Reports Already Submitted to the President

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 27.—The Tariff Commission's investigations of prices of imported products and costs of production abroad, particularly of chemicals on which tariff increases or reductions have been requested, are nearly completed. On several products reports have been made to the President and await his decision under the flexible tariff provisions which give him the right to increase or lower the rate. The investigations include the following products:

Phenol.—The domestic costs of production are being obtained. In England, the chief competing foreign country, costs were obtained from the concern which practically controls the production of refined phenol through contracts with producers of crude carboic acid, the raw material.

Potassium Chlorate.—This chemical is used in the production of matches and explosives. In the field work, now completed, costs of production were obtained from two domestic manufacturers, but were withheld by manufacturers in Scandinavia, Germany, and France, and opportunity to verify Swedish cost data by reference to books of record was not given. Some general information on raw material costs and power consumed was obtained in France and Germany. A public hearing was held in the office of the commission in Washington on November 14, and November 24 was set as the date for the filing of a brief by the applicant for a reduction in the duty and December 1 for the filing of a brief in reply by the applicants for an increase in the duty.

Sodium Nitrate.—This chemical is used almost entirely in the manufacture of the so-called "Azo" dyes. Costs of production were obtained from the three domestic producers, each of whom uses a different process, as follows:

1. Arc process: Fixation of atmospheric nitrogen by passing air through an electric arc, yielding oxides of nitrogen, which are absorbed in soda ash to produce sodium nitrite.
2. Ammonia oxidation process: Ammonia is converted to oxides of nitrogen by passing it through heated platinum gauze. The oxides of nitrogen are converted into sodium nitrite, as above.
3. Sodium nitrate or lead process: Sodium nitrate (Chile saltpeter) is reduced by means of lead to sodium nitrite, with the simultaneous formation of litharge.

The largest foreign producers of sodium nitrite are Norway and Germany. Manufacturers in these countries declined to give the commission's investigators access to their cost records. In Norway information was obtained from other sources as to power costs, prices of soda ash, wage rates, and other factors of production costs.

Production in Norway is by the arc process. The immense hydro-electric developments in that country afford cheap electric power, this being one of the important elements in the cost of producing sodium nitrite. In Norway the principal product of the atmospheric fixation of nitrogen is calcium nitrate, a fertilizer material, while sodium nitrite is more or less a by or end product. In the United States, on the other hand, sodium nitrite is the only product made by the arc process and by the ammonia-oxidation process.

A public hearing on sodium nitrite was held at the

office of the commission in Washington on Sept. 10. A summary of information on sodium nitrite was subsequently submitted to interested parties, and on October 6 a final hearing was held at which opportunity was given for argument and the presentation of briefs.

Synthetic Phenolic Resins.—The domestic investigation, covering only resins from which cigarette holders, pipe stems, and other smokers' articles are made, will be completed at an early date. The only producing concern in Germany withheld production costs.

Diethyl Barbituric Acid (Barbital or Veronal).—This product is a narcotic, the investigation of which has been completed. Costs have been obtained from the two domestic manufacturers and from the largest manufacturer in Switzerland. The latter, however, refused permission to verify costs to the books. The two manufacturers in Germany, while refusing to give costs, submitted a statement of prices at which they sold their product. A public hearing held at the office of the commission in Washington on November 7, was closed without argument or the filing of briefs.

DIFFICULT TO GAS ENTIRE CITIES

(Special to DRUG & CHEMICAL MARKETS)

Baltimore, Feb. 27.—Lieut. Col. Claude E. Brigham, executive officer of the Chemical Warfare Service of the United States Army, speaking before a joint meeting of American Legion posts in Baltimore, last week, declared that experiments covering not less than 1,000 cases concerning the possibility of using chlorine gas for the cure of colds had been made, and that there was no foundation for the rumor of injurious after-effects.

Colonel Brigham predicted the use of smoke curtains hung by planes on an extensive scale in future warfare, but he added that he did not believe there would be as much gas used in attacks on cities as had been predicted. For worth-while results in the gassing of cities, he asserted from ten to twenty tons of gas per square mile would be necessary, and hundreds of airplanes would be required to spread it.

United States Gypsum Co. shows net income of \$5,030,922 for year ended Dec. 31, after depreciation, depletion, federal taxes and contingencies. This is equivalent after preferred dividends to \$15.59 a share (par \$20) earned on \$5,911,680 common stock, compared with net income of \$3,119,033, or \$12.18 a share (par \$20) earned on \$4,431,040 outstanding common in 1922.

Du Pont 7½ per cent bonds are sound and desirable from the standpoint of security value, the only objectionable feature being the redemption clause in the loan, according to the "New York Tribune," in answering a recent query. The bonds are redeemable in whole or in part on any interest date.

Continental Can Co. reports net earnings of \$4,837,480 for 1923, against \$4,438,508 in the previous year. After providing for taxes, interest and other charges, there was net income of \$3,767,730, against \$3,161,603 in 1922.

Sherwin-Williams Co. has applied to the New York Stock Exchange for permission to list \$15,000,000 issue of seven per cent, cumulative first preferred stock, Series A \$100 par value.

National Lead Co. has declared the regular quarterly dividend of 2 per cent on common stock, payable March 31 to holders of record March 14.

Directors of Atlas Powder Co. have declared a dividend of \$1 per share on the common, payable March 10, to stockholders of record Feb. 29.

Rhodia Chemical Co. has obtained a judgment against Nathan Haber amounting to \$179.17.

Business Surveys Show Expanding Trade

President Coolidge Declares Conditions Fairly Good—Banks Report Increased Activity in Basic Industries—Progress Made in Federal and State Income Tax Reduction

President Coolidge let it be known last week that in his opinion the country is in a healthy condition. The President's views were made public by a White House spokesman, who reported that a general discussion took place at a Cabinet meeting in relation to the prevailing business conditions over the country, which were declared to be fairly good. There does not seem to be any unemployment anywhere, the spokesman continued, and while the orders that are on hand in manufacturing establishments are not large, that seems to be the result of a policy not to put in large orders for deliveries far into the future, but everything that can be manufactured in the country seems to be finding a ready market.

Revenue freight loadings for the second week in February continued to run ahead of all records for corresponding weeks in previous years, with a total of 906,489 cars, according to the Car Service Division of the American Railway Association. Due to the severe weather conditions in certain parts of the country, this was a decrease of 23,447 cars from the previous week, but it was an increase of 57,137 cars over the corresponding week last year, and 128,698 cars over the same week in 1922. All districts reported increases over the corresponding week last year except the Northwestern, while all showed increases over two years ago.

Continued irregularity prevails in the business world but merchandise continues to move in a conservative manner, according to the weekly trade reviews. Definite progress is reported in many quarters, however, according to Dun's. The Bradstreet report says: "In volume of buying and production, the iron and steel and kindred trades easily lead, with operations by largest interests close up to full capacity. Automobile manufacturing is unprecedentedly active for this season of the year. Glass manufacturing, hardware sales, and production, and distribution of the non-ferrous metals are classed as active."

Increased activity in basic industries has characterized the last thirty days, says the National Bank of Commerce in New York. Demand for iron and steel is good. Ingot production is running high and during January was at the rate of 41,465,000 tons per year. The United States Steel Corporation is operating at about 90 per cent of ingot capacity. Its unfilled orders have increased and other producers are expanding their output. The volume of building is in excess of the corresponding season for any preceding year.

The Garner (Democrat) income tax substitute for the Mellon plan adopted by the House provides for normal taxes of 2 per cent on incomes below \$5,000; 4 per cent on incomes between \$5,000 and \$8,000; 6 per cent on incomes exceeding \$8,000. A graduated surtax scale beginning at 1 per cent on incomes between \$12,000 and \$14,000 up to a maximum of 44 per cent on incomes exceeding \$92,000. Exemptions of \$2,000 for single persons and \$3,000 for heads of families.

The time is rapidly approaching when the stock market should reflect an improvement in general business conditions, says "Financial America." February al-

ways has been a month of a lull in activities, but beginning with about the middle of March the trade situation should show the influence of what may be expected in the next five or six months. For that reason, and because of the popular view that business conditions this year are expected to be good, there has been moderate buying on the downward scale of leading stocks in the past few days by some of the important banking interests.

CHEMICAL PRICE INDEX HIGHER

(Special to Drug & Chemical Markets)

Washington, D. C., Feb. 27—Wholesale prices of chemicals and drugs stiffened very slightly in January, and were somewhat higher than in January, 1923, the Department of Labor reports. On 1913 basis of 100 the Department's wholesale price index number for these commodities stood at 132 in January compared to 130 in December and 131 in January, 1923.

CYANAMID EARNINGS LARGE

American Cyanamid common stock has advanced seventeen points since Jan. 1 and with four months of the fiscal year to go, the company seems assured of earnings between \$25 and \$30 a share for the 65,943 shares, says the "Wall Street Journal." In the year ended June 30, last, earnings available for the common were equivalent to \$25.38 a share and business so far this year has been in excess of 1923. Business in cyanamid was as large as in the preceding year. Fertilizer companies have completed purchases for the present season. The new season will start April 1.

A recent development by the company is a new type electric furnace, which melts phosphate rock, making phosphoric acid by a direct process. The importance of this method is indicated by the fact that it produces a double superphosphate containing over 50% of pure phosphoric acid, while the old sulfuric acid process makes a product containing only from 16% to 18% phosphoric acid. The furnace is not yet producing in commercial quantities.

Brown Corp. has issued \$2,000,000 7 per cent cumulative preferred stock through Hornblower and Weeks, at 98½ to yield about 7.10 per cent. The Corporation, organized in 1905 under laws of the province of Quebec, owns and operates a sulfate pulp mill with a daily capacity of 220 tons and a lumber mill at La Tigue, Quebec, representing a cash investment of more than \$6,000,000. The stock is callable at 105 and accrued dividends.

National Enameling & Stamping Co.'s annual report for 1923 shows a decrease in earnings from \$1,982,595 in 1922 to \$1,271,295 for 1923. After preferred stock dividends, this amount equals \$3.66 a share on the 155,918 shares of common stock, against \$8.23 a share in 1922. In 1923, there was a deficit of \$286,254 after payment of dividends which is compared with a surplus of \$1,048,718 in 1922.

The report of Air Reduction Co., Inc., for the year ended Dec. 31, shows net profits of \$2,138,023 after interest, federal taxes and depreciation reserve, equivalent to \$12.31 a share earned on outstanding 173,586 shares of capital stock of no par value. This compares with net profits of \$879,507, or \$5.23 a share on the 168,121 shares outstanding in the previous year.

CHICLE STOCKHOLDERS SEEK DIVIDENDS

American Chicle Co. is earning increasing profits. Sales for December, 1923, were approximately three times those of December, 1921. January and February, 1924, continue to show a healthy increase, according to Thomas H. Blodgett, president, in a letter to stockholders requesting proxies in support of the present management and replying to a recent pamphlet attacking policies of the company. This attack, Mr. Blodgett says, was apparently inspired by former employees and officials.

Indebtedness of American Chicle Co. has been reduced from more than \$7,400,000 to below \$5,300,000. Further payments are being made as rapidly as funds accumulate. Mr. Blodgett points out that when the remaining indebtedness has been decreased to reasonable proportions, which should require less than two years, and when financing costs can be reduced below the present expense, stockholders can properly issue long-time securities and directors resume dividends without endangering the company's solvency.

Members of the banking group that sponsored the sale of American Chicle Co. stock in 1920 at \$40 a share have been advising their clients to take no action in regard to sending their proxies to the protective committee, until they receive the statement by Thomas H. Blodgett, president.

The management of the American Chicle Co. is being subjected to severe criticism by a protective committee, recently organized by prominent stockholders, who attribute the decrease in business of the company from \$14,000,000 annually to \$4,000,000, during the last few years, to the Bank Creditors Committee, which has been in control since January, 1922. The Protective Committee, headed by George L. Ingraham, of the law firm of Ingraham, Page and Moran, is seeking proxies representing the 150,000 shares of stock outstanding and will attempt to remove the present management when up for re-election at the annual meeting of the stockholders on March 4. Stephen I. Britton, vice president of the company, has issued a statement denying charges and defending the present management.

Household Products, Inc., statement for 1923 shows net profits of \$2,630,355. After deducting \$311,635 for Federal tax reserves, a balance of \$2,318,720 remained, which was equal to \$4.63 a share on the 500,000 shares of no par value capital stock outstanding. Cash on hand amounted to \$1,249,925; accounts receivable, \$594,826; accounts payable, \$16,985; and profit and loss surplus \$959,027.

The recovery of \$100,000 worth of stock of the Independent Salt Co., which was stolen from the apartment of Mrs. Olive Waite in the Great Northern Hotel, New York, Feb. 9, was effected by detectives when Omar Mackley, former Canadian Army officer, was arrested when trying to negotiate for the return of the stock.

Union Carbide and Carbon Co. has increased the dividend on the common stock to \$5 a share annually by declaring a quarterly payment of \$1.25 a share, against previous payments of \$1. The dividend is payable April 1 to stockholders of record March 5.

Underwriters of the 109,350 shares of Silica Gel Corp., subsidiary of Davison Chemical Co., have notified the company that they will exercise their option to purchase an additional block of 30,600 shares at \$25 each.

International Salt Co. has declared a dividend of 1½ per cent, payable April 1 on stock of record March 15.

New Incorporations

Chemical Companies

- Creo Eucalypt Co., Rochester, N. Y., \$40,000. Make chemicals. A. H. and N. S. Bull, J. A. Albiston. Attorneys, Zimmerman, Felersky & Schoenberg.
- Branshaw Chemical Co., New York, \$10,000. Chemicals. M. T. Branscombe, W. I. and T. Schwartz. Attorney P. Lippner, 250 West 57th st.
- American Salt and Chemical Co., Galveston, Texas, \$500,000. Develop petash fields.
- Alkyl Products Co., Wilmington, Del., \$100,000. Manufacture chemical compounds.
- Vail Laboratories, Inc., Dover, Del., \$100,000. Chemists and druggists.
- Western Chemical Co., San Francisco, Cal., \$500,000. Chemicals. Fred Leve, L. S. Fisher, Q. N. McAdoo, R. S. Goldman and J. C. Altman.
- Willcox-Miller Corp., Larchmont, \$50,000. Manufacture chemicals. V. J. Willcox.
- Niagara Vegetable Oil Corp., Niagara Falls, 800 shares common stock, no par value. H. S. Steels, H. E. Moxham, S. J. Lanier. Attorneys, Cohn, Chorman and Franchot.
- General Phosphorus Co., Cincinnati, O., \$25,000. Phosphorus and affiliated products. James R. Clark, Burton E. Robinson and William J. McCauley.
- Dye, Drug and Chemical Corp., Woodbridge, N. J., \$50,000. Chemicals and dyes. Edmund Lorimer, Joseph White, Henry Sherman.
- Monocnurch Chemical Corp., New York, \$200,000. Manufacture chemicals. C. H. Van Muns, N. M. Church, C. Van.
- Miraco Products Chemical Co., Dover, Del., \$35,000. Manufacture chemical products. G. V. Brooks, C. V. Arbogast, J. R. Berry, Pittsburgh.
- M. Demattia, New York, \$30,000. Chemicals. M. Demattia, A. Burdick. Attorney, B. M. Freedman.

Consuming Industries

- Atlantic Candy Corp., Wilmington, Del., \$1,010,000. Colonial Charter Company.
- American Lanolin Corporation, Lawrence, Mass., \$100,000. Wool products, chemicals. Richard C. Evarts, Murray F. Hall, Stewart C. Woodworth, Boston.
- Rubber Latex Research Corp., Boston, Mass., \$100,000. Scientific experiments and rubber latex. Albert M. Davis, John W. Decrow, Charles E. Valentine, William Burton Wescott.
- American Plate Glass and Window Corp., Brockline, Mass., \$75,000. Make plate and window glass. Edward J. Feeley, Paul F. Burke, Frank J. Minton.
- Ithaca Textile Co., Ithaca, N. Y., 1,000 shares common stock no par value. C. I. Goldstone, N. M. Eller, R. B. Hamilton. Attorney, W. H. Milholland, 149 Broadway, N. Y. C.
- Sunset Paper Mills, Los Angeles, Cal., \$500,000. Manufacture pulp and paper products. Charles Gordon, Harvey M. Murray, Peter C. Bruce. L. R. Wharton, 320 Bartlett Bldg., Los Angeles.
- Cosmos United Textile Works, New York, \$100,000. H. A. McEnty, J. J. McGinty, T. J. Miller. Attorney, L. Oppenheimer, 277 Broadway.
- Victor Ford Pictures, Wilmington, Del., \$100,000. Films. Colonial Charter Co.
- Insect Killer Corp., Wilmington, Del., \$1,000,000. Corporation Service Co.
- Independent Match Corp., Wilmington, Del., \$300,000. Manufacture matches. F. L. Mettler.

Directors of E. I. du Pont de Nemours & Co. have declared a regular quarterly dividend of 2 per cent on the common stock, payable on March 15 to stockholders of record March 5, and a regular quarterly dividend of 1½ per cent on the debenture stock, payable on April 25 to stockholders of record on April 10.

American Druggists' Syndicate reports for 1923 net profit of \$180,472 after depreciation, equivalent to 27 cents a share earned on the 678,323 shares of \$10 par value capital stock. This compares with \$430,921, or 65 cents a share, in 1922.

Sales of securities at the Auction Rooms in Vesey St., New York, included 175 shares Joseph Dixon Crucible Co., \$134½ to \$136 per share, and 300 shares Atlantic Tar & Chemical Works, Ltd., \$10 for the lot.

E. I. du Pont de Nemours Powder Co. has declared regular quarterly dividends of 1½ per cent on common stock and 1¼ per cent on preferred stock, payable on May 1 to stockholders of record April 19.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending Feb. 23.

	Bid	Asked		Bid	Asked
*Air Reduction	77½	78	Hercules Powder	104	108
*Allied Chem. & D. 68½	69		Hercules Powd., pf. 103	104	
*Allied Ch. & D., pf. 112	112½		Heyden Chem.	17½	2
*Am. Ag. Ch.	12½	12½	Hooker Electro	55	65
*Am. Ag. Ch., pf.	36	37½	Hooker Electro, pf. 60	70	
*Am. Chicle	17½	18½	*Household Products 32½	32½	
*Am. Chicle, pf.	56	65	*Int. Agricult.	1½	1½
*Am. Cot. Oil Cfs.	11½	12	*Int. Agricult. New. 3½	5	
*Am. Cot. Oil Cfs., pf.	34½	36½	*Int. Agricult., pf. 5½	6	
Am. Cyan.	88	97	*Int. Nickel	13½	13½
*Am. Druggist S.	5½	6	*Int. Nickel, pf. 79	82	
Am. Glue	37	40	*Int. Nickel	73	89
Am. Glue, pf.	99	103	*Mathieson Alk.	34½	35½
*Am. Linseed	18½	19½	Merck & Co., pf.	59	61
*Am. Linseed, pf.	37	40	Merrimac	94	96
*Am. Zinc	9½	9½	Mulford Co.	35	40
*Am. Zinc, pf.	33½	34	Mutual Co.	150	151
Archer-Dan-Mid	23	23½	*National Lead	138	139
Archer-Dan-Mid., pf. 84	87		*National Lead, pf. 112½	115	
*Atlas Powder	52	53	N. J. Zinc	148	152
*Atlas Powd., pf.	85	87	Niag. A., pf.	96	100
By. Prod. Co.	45	50	Parke, Davis & Co.	79½	79½
Carborundum	133	133½	Penn Salt	86	86½
Carborundum, pf.	115½	116	*People's Gas, Chi.	95½	96
Cascade Co.	70	80	Procter & Gamble	125½	125½
Celluloid Co.	77	80	Procter & Gam., pf. 107½	109	
Celluloid Co., pf.	108	110	Royal Bak. Po.	130	135
Ches. Mfg.	412	415	Royal Bak. Po., pf. 99	100	
Ches. Mfg., pf.	112	115	Sherwin-Williams ..	30	31
*Com'l Solv. A.	51	53	Sherwin-W., pf.	100	103
*Do B	45	50	Stand. Ch.	90	100
*Corn Products	175	175½	Swan & Finch.	65	68
*Corn Products, New w.i.	35	35½	*Tenn. C. & Chem.	87½	87½
*Corn Products, pf. 118	120		*Tex. Gulf, Sul.	63	63½
*Davison Chem.	51½	51½	Union Carbide	62	62½
Dow Chem. non par. 45	50		Union Sulphur	80	80½
Dow Ch., pf.	96	96	*Un. Drug, 1st pf. 47½	48	
*Du Pont de Nem.	128½	129	*Un. Dyewood	40	45
*Du Pt de Nem. Db. 86	86½		*Un. Dyewood, pf.	91½	91½
*Eastman Kodak	111	111½	Un. Gas Imp.	57½	58½
*Eastman Kodak, pf.	108	108	Un. Gas Imp., pf.	55	55½
*Freeport Tex.	10	10½	U. S. Gypsum	85½	87
*Freept. Tex. Sul., pf. 91	93		*U. S. Indus. Al.	75	76
Gold Dust	120	125	*U. S. Indus. Al., pf. 101	105	
Grasselli, pf.	100	103	*Va.-Car. Ch.	64	64
			*Va.-Car. Ch., pf.	184	19
			*V. Vivaudon	124	124½

*Listed on New York Stock Exchange

The 1 per cent quarterly dividend due to be declared on the common stock of National Enameling and Stamping Co., was passed by the Directors. The regular 7 per cent dividend on the preferred was declared for the year 1924, payable in quarterly instalments. Officers said the directors passed the common dividend to conserve the finances of the company in view of the large amount of money recently put into construction work. It was added that no new financing is needed.

In reply to an inquiry regarding American Linseed stock, the "New York Tribune" says: "There was a deficit after dividends in 1921 of more than \$5,000,000, and no dividends have been paid on either preferred or common stocks since 1921. There was a surplus of nearly \$800,000 in 1922 and the outlook has since improved, but no attempt can be made here to suggest whether it would be wiser to sell your shares or continue to hold them in hope of further improvement."

Texas Gulf Sulphur Co. has declared an extra dividend of 25 cents a share on the capital stock, in addition to the regular quarterly payment of \$1.50 a share. Both dividends are payable March 15 to stockholders of record March 3. Clarence M. Woolley has been elected to the board to fill the vacancy caused by the death of John A. Black.

B. W. Jones, chairman of Distillers Securities Corp. bondholders' committee, states there have been no dissents to the plan of reorganization of U. S. Food Products Corp., and over 80% of the bonds have been deposited.

STOCK DIVIDEND BY CHESEBROUGH CO.

The directors of Chesebrough Manufacturing Co. (Consolidated), adopted a resolution at a meeting on Thursday, Feb. 21, for the declaration of a 100 per cent stock dividend. The common stock of Chesebrough Manufacturing Co. has advanced about \$200 a share within the last month. It sold at \$430 a share on the New York Curb Market on Thursday, this price comparing with \$234 a share quoted early in January.

The directors called a special meeting of stockholders to be held March 20, to authorize an increase in the common stock from \$1,500,000 to \$4,000,000. They will be asked also to authorize a splitting up of the present capital stock of \$100 a share par value into units of \$25 a share par value each. If the stockholders approve the capital increase the directors will then authorize the distribution of a 100 per cent stock dividend. The splitting up of the stock and the stock dividend will give the shareholders eight shares of common stock of \$25 a share par value each for one share of \$100 par value now held. The stock dividend will increase the common stock outstanding to \$3,000,000. The remaining \$1,000,000 of capital to be authorized, it is explained, will be carried in the treasury of the company for future expansion or other corporate needs.

The directors also declared the regular quarterly dividend of \$3.50 a share on the common stock, payable Mar. 31, to stockholders of record March 5, and the regular quarterly dividend of \$1.75 a share on the preferred stock, payable March 31, 1924, to stockholders of record March 10.

It was announced that there would be no change in the present preferred stock. The stock transfer books of the common stock will be closed from March 6 to March 20, both inclusive, in connection with the special meeting of the stockholders.

American Metal Co. reports for 1923 operating income of \$4,948,467, against \$3,215,569 in 1922. After allowing for all depreciation, depletion and other charges the company reports net income of \$2,703,260, against \$2,020,905 the previous year. The net income for 1923, after allowing for preferred dividends, was equal to \$3.98 a share on the 590,790 shares on no par value common stock outstanding at the close of last year. In 1922 the net income, after preferred dividends, was equal to \$2.46 a share on the 536,000 shares of common stock then outstanding. After all dividend payments in 1923 there was reported a surplus of \$710,739. The profit and loss surplus on Dec. 31 aggregated \$8,152,175.

International Nickel Co.'s annual report shows a total income for 1923 amounting to \$2,145,688, against \$778,620 in 1922. The net income, after deducting charges, amounted to \$788,191 which increased from \$17,937 in 1922. The balance sheet on Dec. 31, 1923, showed inventory valued at \$7,333,110; Government securities, \$602,350; accounts and bills receivable, \$1,372,099; advances, \$186,099; loans, \$1,000,000; cash, \$645,309. The main current item among liabilities was accounts payable amounting to \$603,023.

United States Food Products Corp.'s \$3,200,000 issue of six-year 7 per cent guaranteed convertible gold notes has been admitted to trading on the New York Curb Market on a "when Issued" basis. Voting trust certificates for 110,000 shares of sinking fund preferred stock and voting trust certificates for 200,000 shares of common stock were also listed.

One hundred shares of International Nickel Co. common stock were sold at auction recently for \$13¾ per share.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 654-656

DOMESTIC COPPER SULFATE ADVANCED

Recent Strength of Metal Reason for Increase—Caustic Potash and Potassium Carbonate Higher—Arsenic Quiet and Lower—Barium Chloride Down—Tin Oxide Higher—Imported Epsom Salt Stronger—Barium Nitrate Higher

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Barium Nitrate, $\frac{1}{2}$ lb.	Sodium Hyposulfite, Imp., 10c.
Copper Sulfate, dom., 10c 100 lbs.	10c 100 lbs.
Epsom Salt, tech., Imp., 10c	Sodium Chlorate, $\frac{1}{2}$ lb.
Nickel Sulfate, $\frac{1}{2}$ lb.	Caustic Potash, $\frac{1}{2}$ lb.
Sodium Acetate, $\frac{1}{2}$ lb.	Potassium Carb., 80-85% $\frac{1}{2}$ lb.
	96-98%, $\frac{1}{2}$ lb.
	Tin Oxide, 2c lb.
Declined	
Arsenic, White, $\frac{1}{2}$ lb.	Potassium Permanganate, $\frac{1}{2}$ lb.
Barium Chloride, Imp., \$2.00 ton	Potassium Chlorate, Imp., $\frac{1}{2}$ lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial...lb.	\$1.23 $\frac{1}{4}$	\$1.23 $\frac{1}{4}$	\$1.23 $\frac{1}{4}$	\$1.12	\$1.19 $\frac{1}{2}$	\$1.07
Sulfuric Acid, 66 deg...ton	15.00	15.00	15.00	14.00	55.00	20.00
Ammonium Sulfate...100 lbs.	3.00	3.00	3.00	3.30	7.50	2.65
Bleaching Powder...100 lbs.	1.75	1.75	1.50	2.00	9.50	1.50
Copper Sulfate, c/1...100 lbs.	4.75	4.65	4.65	6.40	20.00	4.50
Potash Caustic, Imp...lb.	.06 $\frac{1}{2}$	.06 $\frac{1}{2}$	.07	.07 $\frac{1}{4}$	.87	.08
Soda Ash, 58 p.c...100 lbs.	1.94	1.94	1.94	2.00	3.50	.60
Caustic Soda, 76 p.c...100 lbs.	3.66	3.66	3.66	3.70	9.50	1.42
Potassium Bichromate...lb.	.09 $\frac{1}{2}$	.09 $\frac{1}{2}$	.09 $\frac{1}{2}$	.10	.65	.06 $\frac{1}{4}$
Sodium Prussiate...lb.	.11 $\frac{1}{2}$	.11 $\frac{1}{2}$	.11 $\frac{1}{2}$	.10	1.25	.18
Average	3.050	3.040	3.015	3.188	10.79	2.99

Consumption of industrial chemicals continues in the same moderate volume which has characterized the market since the first of the month. The holidays during the week interrupted buying to some extent but will probably have little effect upon the total volume for the month. Prices have a firm tone with some imported materials quoted at higher prices for shipment. Spot supplies are not in large volume but with present demand dealers are having no difficulty in making deliveries.

Copper sulfate producers have advanced prices during the week following the recent rapid rise in copper. Imported material is scarce on spot but shipment prices are unchanged. Arsenic has declined as weak holders begin to liquidate their stocks. Calcium arsenate has been in slightly better demand this week. Shipment prices for caustic potash and potassium carbonate have advanced and spot prices are also firmer. Potassium permanganate has been selling at lower levels. Barium chloride is easier, while barium nitrate is higher. Imported Epsom salt and sodium hyposulfite are stronger. Sodium acetate is in limited supply and prices are firmer. Tin oxide is higher with the recent rise in metal. Sodium chlorate is stronger. Alkalis are steady while acids are more or less routine.

Acid, Acetic—The situation remains about the same with demand from some sections active and others quiet. The raw material market is not as stable as it has been but present prices are being maintained. Makers quote acids at \$3.38@3.63 for 28 per cent; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

Acid, Oxalic—Demand has been fairly active while prices are subject to shading owing to keen competition in the market. Domestic is quoted at 11c/lb. though lower prices at 10 $\frac{1}{2}$ c/lb. have been heard. Small lots

are quoted up to 12c/lb. Imported named at 11c@11 $\frac{1}{4}$ c/lb.

Acid, Sulfuric—Contract buyers have been taking their full requirements during the month while current business for small quantities has been showing an increase. Prices remain at former levels with 66 degree in tank cars at \$14.50@15.50 ton at works; drums named at \$1.10@1.25 and carboys at \$1.25@1.75; 60 degree in tanks at \$9.00@10.00 ton. Oleum in tanks quoted at \$17.00@18.00 ton and \$1.25@1.75 in drums.

Acetone—Regular demand being met with prices now holding at \$1.05@1.10 gal. for methyl acetone and 19c@19 $\frac{1}{2}$ c/lb. for the C.P. Acetone oils named at \$1.25@1.30 gal.

Ammonium Sulfate—Agricultural demand has been gaining and shipments are going out regularly. Prices are holding at recent levels with bulk at works named at \$2.90@3.00; single bags, \$3.15; and f.a.s., at \$2.85@2.95.

Ammonium Chloride—Domestic makers are meeting present demand while imported material is in limited supply at 6 $\frac{1}{2}$ c@6 $\frac{3}{4}$ c/lb. for the white. Domestic named at 7 $\frac{1}{4}$ c@8c/lb. Grey imported at 7 $\frac{1}{2}$ c@8c/lb. and domestic 8c@8 $\frac{1}{2}$ c/lb.

Arsenic—Prices have declined during the week. Sellers who have been holding for high prices have been gradually weakening as lack of demand continues. Sales have been made at 11 $\frac{1}{2}$ c/lb. while up to 12 $\frac{1}{2}$ c/lb. is being quoted. Japanese material for shipment is heard at 10 $\frac{1}{2}$ c/lb. Calcium arsenate has picked up somewhat but is still far below expected demand for this season. Prices are named around 11 $\frac{1}{2}$ c@12c/lb. as to position.

Barium Products—Nitrate is stronger and higher at 8 $\frac{3}{4}$ c@9c/lb. Imported chloride is easier at \$80.00@82.00 ton on spot. Domestic is steady at \$80.00 at works. Carbonate named at \$63.00@64.00 ton for imported and \$68.00@69.00 for domestic at works. Hydrate at 5c@5 $\frac{1}{2}$ c/lb.

Bleaching Powder—Holding at the recent advance with demand from mills showing a steady improvement. Prices are now quoted at \$1.75 per hundred spot or contract in standard drums in carlots at works and \$2.00 in small drums. Less than carlot quantities are 15c per 100 lbs. above these prices. Spot prices in Metropolitan district for small lots named at \$2.25@2.50.

Copperas—Named at \$16.00 for crystals in bulk, \$18.00 in bags and \$20.00 ton in barrels at works.

Carbon Tetrachloride—Prices continue unsettled owing to competition in the field. Generally quoted at 8c@9c/lb.

Copper Sulfate—Domestic makers have advanced their prices 10c owing to the recent rise in copper. Carlots are named at \$5.75 per 100lbs. and smaller quantities up to \$5.00. Imported materials are quoted at 4 $\frac{1}{4}$ c for shipment and 4 $\frac{1}{2}$ c/lb. on spot.

Potash, Caustic—Shipment prices have strengthened and have advanced to 6 $\frac{1}{2}$ c/lb. A few offerings were heard at 6 $\frac{3}{4}$ c@6 $\frac{1}{2}$ c/lb. spot but these are not expected to remain very long as some are now quoting 7c/lb.

Potassium Carbonate—Conditions abroad have changed and higher prices are being quoted. Hydrated, 80-85 per cent, higher at 6 $\frac{1}{4}$ c@6 $\frac{1}{2}$ c/lb.; calcined, 5 $\frac{1}{4}$ c@5 $\frac{1}{2}$ c/lb.;

96-98 per cent, 5½c for shipment and 6c@6¼c lb. spot; 99 per cent, 7¼c@7½c lb.; C.P., 11c@12c lb.

Potassium Chlorate—Offerings at 7c@7¼c lb. for imported powder. Domestic at 8½c@9c lb.

Potassium Permanganate—Weak with sales at 13c lb. for both domestic and imported. Quoted from 13½c@17c lb. as to seller and quantity.

Soda Ash—Little new in the situation. Current demand is seasonable while deliveries on contract have been steady. Prices are holding at \$1.25 per hundred for 58 per cent light in bulk, \$1.38 in bags, and \$1.63 in barrels, carlots on contract at works. Spot business in less than carlots at \$2.04@2.19 in bags and \$2.29@2.44 in barrels, delivered.

Soda, Caustic—Current business is normal and deliveries are proceeding regularly on contracts. Makers' prices are steady with solid, 76 per cent, at \$3.10 at works on contract; ground and flake, \$3.50. Spot business in less than carlot quantities named at \$3.76@3.91 for solid in drums, and \$4.16@4.31 for ground and flake in drums, delivered.

Sodium Acetate—In smaller supply with prices firm at 5c@5½c lb.

Sodium Chlorate—Firm at 6½c@6¾c lb.

Sodium Hyposulfite—Imported pea crystals higher at \$3.00. Domestic regular crystals at \$2.75@3.00 and pea crystals at \$3.00@3.25.

A bill designating the name, sale, use and labeling of "methanol," formerly known as wood naphtha, wood alcohol or methyl alcohol, has been introduced in the New York Legislature by Assemblyman Lattin. The bill provides: that on and after Sept. 1, 1924, the term methanol shall be used exclusively; that any person who offers for sale or has in possession with intent to sell any food, drink, medicinal or toilet preparation containing methanol is guilty of a felony; and that no person shall sell or give away any methanol either crude or refined unless the container has pasted upon it a label informing of its poisonous contents.

George P. Gray, chief of the division of chemistry, California State Department of Agriculture, has returned to San Francisco from a trip through the southern part of the state, where he visited the trade manufacturing and selling commercial fertilizers and economic poisons. In his report to director G. H. Hecke he says that he found three firms operating without licenses and that others were investigated. Under the State law all dealers in fertilizers and economic poisons are required to register with the State Department of Agriculture.

Barter Trading Corp., London, importers and exporters of heavy chemicals, state in their annual market report and price list that in many directions prices for industrial chemicals and raw materials appear to have touched bottom, and with improvement in home and export trade advances may be looked for and in some items have already taken place.

Roessler & Hasslacher Chemical Co. say in their report of Feb. 15: "Predictions of continued keen competition are being amply fulfilled, although we find that in some markets a firmer tendency has developed." The company has added to its list of products: strychnine, alkaloid and sulfate, and lactic acid, 44 per cent light.

Eastman Kodak Co. will present its final arguments before the Federal Trade Commission on March 5, defending its interests against the charge of alleged conspiracy by the company to monopolize the manufacture and sale of films in the United States.

MAY LOWER TAX ON NICKEL MINES

A bill has been introduced in the Ontario legislature removing discrimination in taxation of nickel-copper mines in the province. During the war, owing partly to large profits made by these mines and partly to the fact that refining was not done in Canada, the scale of taxation was raised above the level imposed on other mines. No tax has been collected for some time from these mines owing to curtailment of nickel production. If the bill is passed the tax will be 3 per cent on annual profits in excess of \$10,000 and up to \$1,000,000; 5 per cent on profits over \$1,000,000 and up to \$5,000,000.

Seventy-five per cent of the drinking water of North American is sterilized by liquid chlorine treatment, according to a novel folder just issued by Wallace & Tiernan Co., Inc., Newark, N. J. The circular which contains much interesting data on the efficacy of chlorine in water sterilization, states further that four billion gallons of chlorine-treated water, which would fill a twelve-inch pipe five times around the world, are used each day.

Exports of alkalis from the United States during November, 1923, were as follows: Cyanide, 89,811 pounds, value \$16,785; borax, 1,485,096 pounds, value \$77,930; soda ash, 2,983,399 pounds, value \$76,459; silicate, 3,473,076 pounds, value \$33,041; sal soda, 1,191,067 pounds, value \$17,205; caustic soda, 9,559,114 pounds, value \$229,067; bicarbonate, 1,657,761 pounds, value \$36,749; other sodium compounds, 8,696,669 pounds, value \$161,991.

The price of liquid chlorine in cylinders, for sales of one ton and less, should have been given as \$6.50 per 100 lbs. instead of \$6.00 per 100 lbs. as was announced in the schedule of chlorine prices in last week's issue by Mathieson Alkali Works. Bleaching powder in less than carlots, spot or contract, is quoted 15c per 100 lbs. above the carlot prices for bleach.

Swedish match interests expect to increase their market in France, following the repeal of the Government match monopoly in France. Sweden now produces a third of all the matches used in the world. In India, during 1923, the sale of matches doubled that of 1922.

Importations of hydrofluoric acid, sodium bisulfite, refined borax, blanc fixe, magnesium sulfate, barium sulfate, aluminum sulfate and chloride, zinc sulfate, concentrated acetic acid, and alum (except chrome alum) into Czechoslovakia are now free of import license.

Ammonium sulfate is now being produced by the Ford Motor Co., according to the "Ford News," official publication of the company. The amount produced is twenty million pounds, or more than enough to supply fertilizer for 100,000 acres.

Exports of heavy chemicals from the United States during November, 1923, were as follows: Sulfuric acid, 531,401 pounds, value \$9,923; copper sulfate, 191,708 pounds, value \$9,706; bleaching powder, 1,415,637 pounds, value \$33,432.

Sweden recently established export credits for Lithuania to the extent of \$250,000 and is soon to duplicate for Estonia. Shipments included large quantities of fertilizers.

Magadi Soda Co., Ltd., London, with properties in Africa, will be reorganized with a capital of about two million pounds. Old shareholders will receive new stock.

The Intermediate and Dye Market

Current Spot Quotations for Intermediates, see Chemicals, page 652

BENZOL MARKET MOVING UPWARD

Tendency Toward Higher Prices With Increased Demand and Limited Supplies—Toluol Continues Strong—Phenol Sensitive to Any Increased Demand—Paramidophenol Stronger—Intermediates Generally Quiet—Dyestuffs Improve Slightly

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced			No Advances			Declined			No Declines		
	Trend of the Market											
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, pure	gal. \$24	\$24	\$22	\$30	\$1.10	\$25						
Naphthalene flake	lb. .06½	.06½	.06½	.06	.16	.03						
Phenol, Spot	lb. .37	.37	.35	.35	1.50	.08						
Toluene	gal. .26	.26	.24	.30	..	..				
Aniline Oil	lb. .16	.16	.16	.16	1.40	.10½						
Alpha-naphthylamine ..	lb. .35	.35	.35	.28	1.28	..						
Benzaldehyde	lb. .75	.75	.75	.60	..	..				
Betanaphthol	lb. .26	.26	.26	.24	1.50	.08						
Dimethylaniline	lb. .37	.37	.38	.42	1.80	..						
Paranitroaniline	lb. .70	.70	.70	.78	1.58	.18						
Average	0.353	0.353	0.347	0.344	..	..				

Business in intermediates and dyestuffs has shown little change from the preceding weeks of this month. The holiday coming at the close of the week helped to reduce the volume of business for the month, but it was generally felt that not much further buying would take place. While a few dye plants are reported slightly more active, business has been confined to small quantities for immediate delivery. Textile mills have been buying in better quantities, but it is thought that this is due to depletion of stocks rather than any increase in textile activity. Other consuming industries have been taking coal-tar crudes in better quantities and with stocks somewhat limited, prices are firm at present levels.

Benzol and toluol have been in excellent demand and the market in these products is tending higher. Supplies have not been as plentiful as might be expected and in many cases producers have not been able to make deliveries promptly. Consumers have not been contracting to any extent and have been coming into the market for supplies in increasing numbers. Higher prices may be expected if the present situation continues. Phenol has shown little improvement though a temporary weakness took place during the week. It is doubtful if any good sized quantity could be accumulated and if any demand developed prices would quickly react upward. Cresylic acid has been routine with prices unchanged. Pyridine is in better supply. Intermediates are in routine demand with little in the way of price changes.

Coal-Tar Crudes

Benzene—With demand still active and supplies barely keeping pace with buying, the prices have been firm with an upward tendency. Higher prices may be expected in the near future if the present situation continues. Prices have been holding firm at 24c@25c per gallon for pure in tanks and 29c@30c in drums; ninety per cent is named at 23c in tanks and 28c in drums.

Cresylic Acid—Slightly improved demand in some quarters but on the whole demand has not been of any consequence. Prices are holding at recent levels with 97-99 per cent quoted at 70c@75c per gallon according to seller and quantity; 95 per cent named at 65c@70c per gallon.

Naphthalene—Little new in the situation. Manufacturers are busy on contract business for future delivery while the resale market has not yet developed. Demand from dye makers is quiet. Prices are holding steady at 6c@6½clb. for flake and 7c@7½clb. for balls. Chipped at 5½clb.

Naphtha, Solvent—With demand active and supplies somewhat limited prices are holding firm at 24c@25c per gallon in tanks and 29c@30c in drums.

Phenol—Sales have been reported at 35½clb. which indicates a slight weakness, though quotations are generally named at 36c@37clb. Supplies are very small in the open market and it is doubtful if over two carlots could be accumulated. Demand has been mainly for lots of two to five tons but if any important demand developed prices would quickly advance above present levels. Manufacturers of synthetic and natural phenol are sold up and are not offering at present. Imported material has arrived in the market and further importations are likely since material can now be imported and sold at the present market.

Pyridine—Offerings have been heard at \$3.25@\$3.50 on spot while shipment prices are quoted at \$3.00 per gallon. Demand has fallen off considerably.

Toluene—Continues strong owing to limited supplies and an active demand. The market has been holding at 25c@26c per gallon in tanks and 30c@31c in drums.

Xylenes—Demand is reported good while prices are firm at recent levels. Nitration grade is quoted at 45c@50c per gallon in drums; 5 degree at 35c in tanks and 40c in drums; 10 degree, 32c@33c in drums; commercial, 27c@28c in tanks and 32c@33c in drums.

Intermediates

Acid, Anthranilic—Has been in better demand recently. Refined is steady at \$1.00lb. and technical at 94clb.

Acid, Cleve's—In routine demand with prices steady at \$1.00@\$1.10lb.

Acid, Gamma—Quiet and unchanged at \$1.50@\$1.60lb.

Acid, H—Fair volume of business with makers quoting 72c@75clb. as to quantity.

Alpha-naphthylamine—Steady at 35c@37clb. on quiet buying.

Aniline Oil—Little more than routine with prices unchanged at 16c@17clb. according to quantity. Aniline sale holding at 23c@24clb.

Benzidine—Base is quoted at 80c@84clb. according to seller and quantity.

Beta-naphthol—Makers firm at 26clb. for the usual small quantities while carlots are named at 24c@25clb. Little resale material is available and prices are close to makers' quotations.

Dimethylaniline—Has been easier with quotations at 36c@38clb. as to quantity.

Diethylaniline—Limited supplies at 55c@60clb.

Meta-toluylenediamine—Quoted at 82c@88clb. as to seller and quantity.

Para-amidophenol—Holding at \$1.25@1.30lb. but advances expected owing to increased cost of production. Demand from fur dyers showing improvement.

Para-nitraniline—Quoted at 68c@73clb. as to seller and quantity with demand showing slight improvement.

Para-toluidine—Steady at 85c@90clb. with demand quiet.

METZ NOT OPPOSED TO GERMAN DYE PACT

Herman A. Metz is hopeful that an agreement similar to the Anglo-German pact will be arranged between American dye manufacturers and the German Dye Cartel. Mr. Metz said he believed many American firms were secretly hopeful of a German chemical alliance on the basis of manufacture here with the aid of German technical experts.

"There would be no difference between such a course," he said, "and the direct hiring of German technical talent, as was done by the du Ponts."

Mr. Metz said that American manufacturers made more explosives and poison gas, before they had a dye industry, than all the world combined, and now that the plants are built they seek unnatural protection on patriotic grounds in order to keep them busy.

The Dye Division of the American Chemical Society has called for papers pertaining to the manufacture of dyes and intermediates, for the meeting at Washington, D. C., April 21. Notices have been sent to members by R. Norris Shreve, secretary, who requests that titles and abstracts of papers be sent to him by April 1. At the coming meeting, the co-operation work of the Dye Division with the Color Laboratory of the Bureau of Chemistry and with the Bureau of Standards will be explained.

A. V. Howland, general manager of the convention of the National Association of Purchasing Agents, which will be held in Boston on May 19 to 24, stated that chemical and dyestuff people are very slow in engaging space at the exposition that will be held in connection with the convention.

British exports of dyestuffs in 1923 amounted to 195,489 cwt. which is an increase of 95,132 cwt. over 1922 figures, according to reports of the British Board of Trade. The total exports for December amounted to 19,486 cwt. as against 7,366 for the same month in 1922.

Unofficial and semi-official reports have reached this country indicating that those who are in closest touch with the British-German dye agreement do not really believe that the agreement will ever be consummated. Investigation of the agreement is still in progress.

Dyes worth 3,000,000 yen were destroyed by the Japan earthquake, mostly burned, but there are sufficient stocks on hand to supply the demand. Market values remain fairly steady due to shipments which are constantly arriving from Germany.

The Etablissements Kuhlmann and the Compagnie Nationale de Matieres Colorantes, a newly organized chemical combination in France, report production of dyestuffs amounting to 581 metric tons in September, 648 tons in October, and 830 tons in November.

Exports of British dyestuffs in December amounted to 19,486 cwt. against 7,366 cwt. for the same month in 1922. The total exports for 1923 totaled 195,489 cwt. against 100,357 cwt. in 1922.

SLUMP IN HANKOW DYE MARKET

Sales of artificial indigo in China for the year 1922 amounted to 160,000 piculs, of 133½ pounds each, according to a report to the Department of Commerce from Consul General P. S. Heintzelman, Hankow. Of this amount, the Hankow district absorbed over 68,000 piculs, of which Germany supplied the greatest quantity, 41,000 piculs. America furnished 10,000 piculs and the balance came from Switzerland, France and other countries. Prices for the year declined from 70 Hankow taels (\$53.29) to 50 Hankow taels (\$38.07) due to sharp competition, but toward the end of 1922, prices rallied to 60 Hankow taels (\$45.68) per picul.

British indigo, when prices began declining, could not compete and the result was that much of the product was shipped back to England. The French, in the latter part of the year, sold most of their stocks and retired from the market, thus leaving the German, Swiss and American interests in the field. Due to the comparatively low prices of artificial indigo, the production of the natural product is practically at a standstill.

Sulfur black is the next important dyestuff in China, the sales of which depend greatly on the price of native cotton yarn. Prices for the year were subjected to a steady decline from 34 Hankow taels (\$25.88) to 27 Hankow taels (\$20.55).

CANADA'S DECEMBER DYE IMPORTS

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, Feb. 27—Imports into Canada of dyeing and tanning materials during December were valued as follows: From Britain, \$15,481; United States, \$169,337; other countries \$80,100; total \$264,918; compared with imports for December 1922: From Britain, \$18,850; United States, \$239,766; other countries, \$66,301; total \$324,917.

Imports of aniline and coal-tar dyes included in the above were: From Britain, 31,904lbs. value \$15,247; United States 111,255lbs., value \$71,390; Germany 109,237 lbs., value \$58,024; Netherlands 22,097lbs., value \$14,204; Sweden 500lbs. value \$420; Switzerland 9,189lbs., value \$6,500, total 284,182lbs., value \$165,785; compared with imports for December, 1922: From Britain 28,786lbs., value \$15,388; United States 201,687lbs., value \$113,936; Germany, 31,046lbs., value \$19,138; Netherlands 16,572 lbs., value \$17,645; Sweden, 7,802lbs., value \$7,031, Switzerland 13,105lbs., value \$9,984; other countries 10lbs. value \$5; total 299,008lbs., value \$183,128.

Imports of dyes and dyestuffs into the United States during November 1923 were as follows: Alizarin and alizarin dyes 45,468 pounds, valued at \$55,666; colors and dyes obtained from anthracene or carbazole 57 pounds, valued at \$172; color lakes 2,000 pounds, valued at \$763; natural indigo 3,332 pounds, valued at \$1,999; indigoids 1,815 pounds, valued at \$1,973; all other colors, dyes or stains, whether soluble or not in water, color acids and color bases, 318,064 pounds, valued at \$463,810 and 1,069,008 pounds of extracts and decoctions for dyeing, valued at \$52,048.

The total yield of Indian indigo for 1923-24 now being marketed was estimated at 36,100 cwt. against 53,800 cwt., the final revised estimate of last year's crop, a decrease of 33 per cent. The area is estimated at 185,400 acres which is 37 per cent below last year's finally revised area.

Pacific Wax & Dye Co. has opened for business at 2886 Sixteenth st., San Francisco.

The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 671

CHINAWOOD OIL LOWER FOR SHIPMENT

Spot and Coast Prices Easier on Quiet Demand—Olive Oil Foots Higher Abroad—Soya Bean Oil Higher Due to Scarcity—Cottonseed Oil Firmer—Linseed Oil Stronger on Higher Seed—Tallow Easier—Fish Oils Steady—Turpentine Higher

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Cottonseed Oil, P.S.Y., ½c lb.	Soya Bean Oil, Spot, ½c lb.	Chinawood Oil, Spot, ¾c lb.	Corn Oil, crude, ½c lb.
Lard Oil, ¼c@½c lb.	Coast, ¼c lb.	Shipmt., ¾c lb.	Oleo Oil, ½c lb.
Neatsfoot Oil, ¼c@1c lb.	Tallow Oil, bbis., ½c lb.	Coast, ¾c lb.	Tallow, ¾c lb.
Olive Oil, Foots, shipmt., ¾c lb.	Turpentine, 2c gal.		

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$.68	\$.68	\$.68	\$.68	\$1.25	\$.36½
Degras, American, bbls..lb.	.04¾	.04¾	.04¾	.04¾	.23	.03½
Lard, No. 1.....gal.	.87	.84	.85	.97½	2.90	.92
Menhaden, crd., bbls..gal.	.50	.50	.50	.53	1.20	.38
Neatsfoot, 20 deg. c.t..gal.	1.27	1.27	1.35	1.39	3.45	.95
Red Oil, distilled.....gal.	.09¾	.09¾	.09¾	.11½	.17	.07
Stearic Acid, T.P.....lb.	.13¾	.13¾	.13¾	.15¾	.33	.12
Coconut, Ceylon, bbls..lb.	.10	.10	.10	.09¾	.90	.14
Cottonseed, crude, tks..lb.	.08¾	.08¾	.09	.10	.25	.08
Linseed, carlots.....gal.	.94	.94	.92	.98	1.88	.57
Olive, denatured.....gal.	1.25	1.25	1.15	1.15	4.50	1.05
Peanut, refined.....lb.	.16	.16	.16	.16½	.30	.08
Soya Bean, bbls.....lb.	.12	.11½	.11¾	.12¾	.19½	.07
Average	0.480	0.478	0.474	0.496	1.30	0.362

Consumption of vegetable, animal and fish oils continues along the same conservative lines which have characterized the past month. While the volume of business has not been up to expectations and occasional declines have taken place, supplies are not available in any large quantities, and the general feeling holds that the bottom has been reached and firmer and higher prices are in store for the future. Except in the case of Chinawood oil, prices of other oils of foreign origin are tending higher, while supplies appear somewhat limited.

Demand for Chinawood oil has been negligible and prices are easier for all positions. Olive oil and olive oil foots continue firm on spot while shipment prices are slightly higher. Soya bean oil has been scarce and recent demand has strengthened prices. Corn oil is a trifle easier. Cottonseed oil continues irregular but with a firmer feeling for forward months. Linseed oil is steady with a higher tendency due to advancing prices in seed. London linseed oil has advanced. Neatsfoot oil is higher. Lard oil and tallow oil have advanced. Tallow has eased off slightly. Oleo oil is lower. Cod and menhaden oils are steady. Turpentine has advanced.

Vegetable Oils

Castor Oil—Holding steady at the recent advance. No. 1 named at 15½c@16c lb. and No. 3 at 15c@15½c lb.

Chinawood Oil—Consumers have been holding off and holders have weakened in their prices. Spot material is offered at 18¾c@19c lb. while shipments in tanks at the Coast named at 17¼c@17½c lb. Mar.-Apr. forward from China at 18¼c@18½c lb.

Coconut Oil—Buying has been limited during the week and with spot prices holding steady. Ceylon quoted at 8¾c lb. in tanks, New York, and 8¼c@8½c lb. for Manila at the Coast.

Corn Oil—Crude is slightly easier at 9½c@9¾c lb. in buyers' tanks at mill. Refined steady at 13c@13¼c lb.

Cottonseed Oil—While changes have been within narrow limits prices appear to be somewhat firmer. Reports on consumption are bearish but forward months are firmer than recently. Crude oil at mills at 8½c@8¾c lb. P.S.Y. from 10c lb. on spot and Feb. to 11c lb. for Sept. Refined oils holding at 13¼c@13½c lb.

Linseed Oil—With seed prices advancing in Argentina oil has a stronger tone though demand has not been active. Crushers are quoting 93c@94c per gallon in carlots on spot. Forward shipments also at 94c up to Aug. in some quarters. London linseed oil higher at 55s per quintal. Antwerp, 512f per 100 kilos. Flaxseed prices in the Northwest are slightly higher with Winnipeg, May opening the week at \$2.34¾; July, \$2.33¾. Duluth, Feb., \$2.59; Mar., \$2.58¾; May, \$2.59; July, \$2.56. Buenos Aires, \$1.70.

Olive Oil—Supplies are not plentiful on spot and prices are firm at the recent advance. Commercial olive oil named at \$1.23@1.25 per gallon. Olive oil foots quoted at 10½c lb. on spot and higher at 10¼c@10½c lb. for shipment.

Palm Oil—In limited supply and firm at 7½c@7¼c lb. for Niger and 8c@8¼c lb. for Lagos.

Peanut Oil—Continues firm with crude nominal and refined at 16c lb. Imports at New York last week included 872 barrels peanut oil.

Rapeseed Oil—Firm at recent advances at 90c@92c gallon for refined.

Soya Bean Oil—Continues scarce and with improved demand prices have advanced to 12c@12½c lb. in barrels, spot and 10¼c@10½c lb. at the Coast in tanks.

Animal Oils

Lard Oil—With stocks reduced prices have firmed up and are quoted higher with edible at 14¾c lb.; extra No. 1, 11½c lb.; No. 1, 11¼c lb.

Neatsfoot Oil—Buying has been improving and producers are higher with pure at 14¾c lb.; extra, 11½c lb.; 20 degree, 17c lb.

Red Oil—Fairly steady demand and unchanged though raw material market is slightly easier. Quoted at 8¾c@9½c lb. as to seller and quantity in barrels.

Stearic Acid—Unchanged on routine demand. Single pressed at 12c lb.; double pressed, 12¼c lb.; triple pressed, 13¼c lb.

Tallow—Sales early in the week were made at 8c lb. which was slightly lower than levels of last week.

Tallow Oil—Firm with barrels at 11¼c lb. and tanks, 9¾c lb.

Fish Oils

Cod Oil—Demand has been showing improvement with prices holding steady at 66c@72c per gallon according to seller and quantity. Imports at New York last week included 525 barrels cod oil.

Menhaden Oil—Weaker holders who have been inclined to shade prices are now firmer and general quotations are uniform at 65c@67c per gallon for light strained; yellow bleached at 68c@69c gal.; extra bleached, 70c@73c gallon.

Sperm Oil—Continues steady on routine demand; 38

degree held at 89c gallon, spot, and 45 degree, 84c gallon.

Whale Oil—In routine demand with prices steady at 77c gallon for natural winter; 79c winter bleached; 81c extra bleached. Imports for a prominent soap maker last week were 22,000 barrels.

Naval Stores

Turpentine—The market is slightly stronger and prices have advanced to \$1.02 for spirits ex-yard, New York. Savannah prices have been firm at 95c with a higher tendency owing to the small receipts and better demand.

Rosins—The holidays affected the volume of business but this week opened with the lower grades higher and firmer and with the outlook regarded as promising. Quotations: B to I, \$5.85; K, \$6.00; M, \$6.10; N, \$6.50; WG, \$7.65; WW, \$7.75.

Oil Trades Association, Inc., has announced the official ticket to be voted on at the annual election on March 11 as follows: President and director, John McD. Murray, H. Hentz & Co.; vice-president and director, George Baum, Adam Cook & Sons; treasurer and director, Philip C. Meon, Borne-Scrymser Co.; secretary and director, Jos. C. Smith, Smith-Wiehman Oil Co. Directors nominated are: Dennis E. Bergen, Cook & Swan Co.; Albert J. Squier, Warren Lubricant Co.; J. H. Redding, Niger Co.; Joseph N. Pigot, Pigot-Sayre Co.; T. J. Skidmore, Tidewater Oil Co.; C. E. Smith, Davies, Young Soap Co.; H. Mart, W. R. Grace & Co.

The Chemical Division, Department of Commerce, has received inquiries from paint and solvent manufacturers relative to sources of butyl alcohol, amyl alcohol, and fusel oil outside of the United States. The logical field sources were requested to submit the names of producers and some remarks as to the situation existing in the respective territories relative to these commodities. A list of the firms in each country reported upon has been prepared by the Commercial Intelligence Division and copies may be obtained upon request.

James S. Kirk & Co., Chicago soap manufacturers, have been cited by the Federal Trade Commission because they used the term "cocoa castile," "floating castile," "hard water castile," and other modifications of "castile" on soaps which contained no olive oils in their basic materials.

The Paint & Varnish Division of E. I. du Pont de Nemours & Co., Everett, Mass., held a sales convention at the City Club in Boston, Feb. 18 and 19. A. H. Avery, district manager for New England, and B. H. Ring, trade sales manager, were in charge of arrangements.

Brown-Roberts Hardware and Supply Co., Alexandria, La., will distribute du Pont paints and varnishes in Alexandria and vicinity.

M. C. Kline has transferred the business known as Kline Co., 473 Jackson st., San Francisco, to Columbia Soap & Chemical Works.

The Texas Cottonseed Crushers' Association will hold its 30th annual convention at the Hotel Galvez, Galveston, Tex., June 9 to 11.

National Paint, Oil & Varnish Association has chosen the Ambassador Hotel at Atlantic City for its convention next Fall.

TURPENTINE LOWER, ROSIN FIRM

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Savannah, Ga., Feb. 23.—Turpentine declined today, but closed firm at 95c. Today's demand would indicate that 95c will continue to be offered. Shipments of turpentine are reducing stocks while receipts are insufficient to fill orders and if any demand develops for prompt shipment prices will advance materially. Owing to the conservative buying of consumers this season, it is thought that considerable business will open up in April.

Receipts of new crop do not increase in a material way until about May 1. Turpentine receipts for the week, 315 bbls.; sales reported, 257 bbls.; shipments, 2,383 bbls.; Savannah stock, 9,284 bbls.

Rosin closed firm with improvement in demand. Receipts for the week, 2,455 bbls.; sales reported, 1,965 bbls.; shipments, 15,071 bbls.; stock, 78,676 bbls. Jacksonville: Stocks Feb. 21, turpentine, 22,532 bbls.; rosin, 133,152 bbls. No trading owing to meeting of Naval Stores trade in Savannah.

FRENCH OLIVE OIL MARKET QUIET

Marseilles, France, Feb. 16.—The market for olive oil is steady, but business is quiet. Quotations on 100 kilos are:

	Francs
Rouches du Rhone	685@700
Var	665@690
Tunis finest	695@725
Algerian	625@650
Andalusian	620@640
Lampantes, Algerian	490
Lampantes, Corsica	470
Oil from pulp and husks.....	350

Stroock & Wittenberg Corp. has been formed to handle varnish, gums, Chinawood oil and other products used for the paint and varnish industries. A. J. Wittenberg, president, was formerly associated with A. Klipstein & Co., Samuel Stroock, secretary, was with S. Stroock & Co. and D. W. Moriarity, vice president was with Innes & Co. The company's offices are in the Whitehall Building, 17 Battery Place, New York.

World production of flaxseed is estimated at 126,000,000 bushels for last year by the U. S. Department of Agriculture, which says the crop is the largest since the war and is greater than the pre-war average. Argentina, which supplies between 65 and 80 per cent of the flaxseed entering into world trade, accounted for the large increase in production. Latest estimates of Argentina's crop place it at 63,225,000 bushels.

A decrease in the consumption of rosin in the soap trade is shown in the report of the U. S. Bureau of Census, of the raw materials entering into the production of soaps of all kinds. In 1909, 207,296,447 pounds of rosin were used. In 1914, the amounts used decreased to 185,311,000 pounds and in 1919, the total amount was 119,529,661 pounds. High prices are given as one of the reasons for the curtailment.

The Tariff Commission has not yet decided on its course in the vegetable oils investigation, which is scheduled for preliminary hearing March 7. A hearing on linseed is scheduled for March 5 and it is probable that a further hearing will be ordered on casein.

National Paint, Oil & Varnish Association will hold the thirty-seventh annual convention at the Ambassador Hotel, Atlantic City, N. J., Oct. 20-22. Granville M. Breinig is chairman of the entertainment and arrangement committee.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 652

COD LIVER OIL AGAIN HIGHER ON SPOT

Owing to Active Demand and Firmer Shipment Prices
—Citric Acid Stocks Reported Low—Salicylic Acid
Active—Alcohol Firm—Japanese Camphor Inside at
79clb.—Formaldehyde Firm—Glycerin Quiet

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced
Cod Liver Oil, Norwegian, 50c bbl.
Declined
Acid, Acetylsalicylic, Resale, 1c lb. Menthol, Natural, 25c lb.

	Trend of the Market						
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War	
Acetanilid	\$3.32	\$3.32	\$3.32	\$3.35	\$2.00	\$2.20	
Acid Citric, Import .....	.48	.48	.47½	.48½	1.25	.45	
Caffeine Alkaloid	4.00	4.00	4.00	3.75	18.00	3.65	
Calomel, American	1.10	1.10	1.25	1.25	3.43	.90	
Camphor, Jap. ref. ....	.79	.79	.80	.91	3.55	.41	
Iodine, Recrystallized	4.40	4.40	4.55	4.55	5.00	3.75	
Menthol	12.50	12.50	13.00	8.25	13.50	3.00	
Potassium Bromide, Cryst. ....	.30	.30	.30	.26	4.30	.80	
Quinine Sulfate, Imp. ....	.50	.50	.50	.50	.90	.25	
Sodium Salicylate .....	.40	.40	.40	.52	4.25	.27	
Strychnine Sulfate .....	.63	.68	.68	.84	2.05	.50	
Average	2.32	2.32	2.39	1.98	5.92	1.56	

A great deal of shopping around by consumers has been noted in the fine and medicinal market during the past week. However, the total sales are on the increase, while the individual transactions are reported smaller than a year ago. Shipment prices are holding firm from abroad and in some cases sharp advances have been reported. Spot stocks appear to be firmly held with tendency for holders to "stand as quoted," which condition, no doubt, indicates firm position from first hands. Changes have been few probably due to narrowness of trading and the short week. Manufacturers appear to have things their own way with few exceptions. What material second hands have, is quoted so close to makers' prices that consumers are going direct to the manufacturers in many instances.

Citric acid is active and stocks of imported are reported scarce. Salicylic acid, U.S.P., is in demand especially for export. Makers of alcohol state that prices are unchanged and that the market is firm with demand good. Japanese camphor is firm at 79clb. spot owing to higher exchange. Formaldehyde is firm at 11clb. for car lots. Glycerin holders are steady at 16½c lb. for C.P. Cod liver oil is again higher and recent importation of 481 barrels is reported sold, so that no relief from this direction can be obtained.

Acetphenetidin—Makers quote firm values at \$1.85@ \$1.90lb. spot.

Acid, Acetylsalicylic—Second hands have reduced prices and now quote 70c@72clb. spot, while makers remain unchanged at 75c@85clb. as to seller and quantity.

Acid, Benzoic—Makers quote 75c@85clb. spot for U. S. P. material, second hands at 72c@77clb.

Acid, Carbolic—One distributor of subdivisions has advanced his prices and now quotes the following outside figures; 112lb. tins, 31c@34clb.; 25lb. tins, 33c@36c lb.; 5lb. tins, 36c@39clb.; and 1lb. bottles, 40c@43clb. Other distributors have not as yet fallen in line with the higher quotations.

Acid, Citric—Imported held firm at 48c@49clb. spot with March delivery quoted at 47c@47½clb. Ship-

ment has firmed up and best price heard, is 30clb. c.i.f. New York. Domestic named at 48c@49clb.

Acid, Diethylbarbituric—Generally quoted at \$4.00@ \$4.25lb. spot, but lower prices, no doubt, could be done on firm business.

Acid, Salicylic—Quoted in active demand at 35clb. spot by makers, and 35clb. from resale quarters for U.S.P. material.

Acid, Tartaric—Imported named steady at 27½c@ 28½clb. spot. During past week 290 kegs were imported at New York, which were probably "sold to arrive." Shipment reported at 21clb. c.i.f. New York. Domestic makers still name 30clb.

Alcohol—Makers report an active market, although some directions state that supplies are somewhat easier than for a little time past. No. 1 specially denatured at 48c@50c gal. spot in drums, No. 5 completely denatured at 47c@49c gal., and No. 6 completely denatured at 46c@48c gal.

Aloin—Steady at 88c@93c gal. spot.

Amidopyrine—First hands report a steady consumption at \$4.50@\$4.65lb. spot. Imports still remain high and little is coming in at the moment.

Antipyrene—No change during the past two weeks at \$2.15@\$2.25lb. spot. Demand routine.

Bay Rum—Porto Rican medicated with salicylic acid quoted at \$2.00@\$2.20 gal. spot. Market is more or less upset owing to some supplies coming in without paying the required tax, according to reports in the trade. St. Thomas quoted at \$1.20@\$1.30 gal. Domestic dealers report active market at 90c@\$1.00 gal.

Camphor—Japanese quoted firm at 79c@80clb. spot for 2½lb. slabs due to higher shipment figures and active demand on spot. Some forward delivery business reported. Domestic makers firm at 93clb. in barrels.

Cocoa Butter—Steady at 34c@35clb. for fingers.

Cod Liver Oil—Norwegian has advanced again and now quoted at \$25.00@\$25.50 bbl. spot. Shipment has been steadily advancing owing to active demand from consuming quarters as well as firmer exchange rates.

Cream Tartar—Imported easy at 22c@23½clb. spot, and domestic at 23clb. Available business subject to keen competition between importers and domestic makers.

Formaldehyde—Makers report a firm market at 11clb. works for c/l and 12c@12½clb. for carboys. Export demand active.

Glycerin—C.P. quoted steady at 16½c@17clb. spot in drums with possibilities of shading these figures on firm orders. Dynamite named at 15½c@16clb. with few buyers in the market at these prices.

Hydroquinone—Named at \$1.40@\$1.50lb. spot in 100lb. keg lots.

Magnesium Carbonate—U.S.P. material quoted quiet at 10c@11clb. spot in barrels.

Menthol—Natural has declined and now quoted at \$12.25@\$12.75lb. spot as to quantity with some factors still naming \$12.50lb. inside. Feb.-Mar. shipment named at \$10.00lb. c.i.f. with no buyers. Late cables from London state a firmer market there. Considerable interest has been shown in the synthetic material, which is still quoted at \$9.00lb. "to arrive."

Mercury—Market firm at \$60.00@\$61.00 flask spot with London naming £9 12s 6d per flask.

Podophyllin—First hands quote \$6.00@\$6.25lb. spot and firm thereat. Second hands name \$5.95@\$6.00lb.

Potassium Permanganate—Imported material quoted at 14c@17clb. spot as to seller, quantity and quality. The largest holder of imported material reports that 17clb. is his price and that he will not shade this figure. Domestic named at 13¾c@14½clb. works as to quantity.

Saccharin—Quoted firm at \$1.90@\$2.10lb. spot as to quantity.

Sugar Milk—Quiet at the moment at 21c@22clb. for U.S.P. in barrels.

Thymol—Demand has eased off of late, although price remains unchanged at \$3.25@\$3.50lb. spot.

A statement concerning the use and application of iodine has been issued by the Conference Board of Physicians in Industry, recently organized to improve conditions of employment and safeguarding employees in industrial organizations of the country. "Tincture of iodine should be used only in and around the wound and should be applied within eight hours after the injury occurs—the sooner the better" says the report. "Apply folds of gauze (bandage, not cotton) directly to the wound. Never soak the gauze in iodine and never apply it on unbroken skin surfaces as this practice irritates and frequently causes blisters."

A bill, proposing that no druggist, physician or any other person shall sell or give away cocaine, opium, morphine or their derivatives or compounds in any quantity whatever, except to regularly licensed physicians or dentists, or upon prescription of such physicians, to be used once and not to be refilled, has been introduced in the Mississippi Legislature. This bill does not apply to physicians or dentists using these narcotics in their regular practice.

Imports into Canada of drugs, medicinal and pharmaceutical preparations during December were valued as follows: From Britain \$88,063; United States \$105,398; other countries \$30,247; total \$223,708; compared with imports for December, 1922; From Britain \$74,249; United States, \$80,281; other countries \$25,993; total \$180,523.

A bill introduced in Kentucky, known as the "Restrictive Sales Bill," provides that no extract or patent medicine containing more than 4 per cent alcohol shall be sold by any person other than a registered pharmacist. If passed, the bill would prevent the sale of perfumes, and toilet articles in the state except in drug stores.

Mallinckrodt Chemical Works, St. Louis, Mo., has recently issued the January price list for reagent and C.P. chemicals, as well as other products specially prepared and analyzed for laboratory use. Directions for making standard volumetric solutions are also given. The booklet will be published at irregular periods.

Chemical patents were the subject of an address by William H. Davis, well-known New York patent lawyer, at the February meeting of the Fine and Medicinal Chemical Section, Synthetic Organic Chemical Manufacturers Association, at the Hotel Commodore, New York, on Feb. 26.

University of West Virginia, Morgantown, W. Va., is to build a chemical laboratory, costing \$650,000.

ISSUE BEARISH MENTHOL STATEMENT

A strongly bearish statement on menthol, recently sent out to consumers all over the United States by Gravely & Co., New York importers, and which has just come to light, predicts a weaker market.

The statement says: "Menthol market in Japan is, apparently, a trifle weaker. A cable was received here to-day, quoting Feb. to March at \$10.50 lb. c. i. f. New York, which would be \$11.15 duty paid. This same position was 75c a pound higher ten days ago. As you know, the spot market is generally held and quoted at \$12.00 pound duty paid. Among the dealers here, a "gentlemen's agreement" exists to hold the spot market at this figure. However, at least one of these spot holders is willing to break the gentlemen's agreement, as we purchased five cases this afternoon (Feb. 8) at \$11.50 a pound, duty paid, f. o. b. New York. To shade a price 50c a pound is rather extraordinary. We think the Feb.-Mar. position from Japan will weaken still more, as there seems to be very little interest shown on the part of the consumers in the country."

The statement was signed by Francis X. Cassera, who was the leader of a bear group in one of the liveliest menthol fights on record which was staged back in 1920. He was then in charge of the menthol department of Rockhill & Victor, New York, and led a spectacular bear raid on the market which was not immediately successful. A smash, which came shortly after the raid, however, cost the bull interests many thousands of dollars and put a couple of New York firms into bankruptcy.

DRUG MANUFACTURERS MEET APRIL 7

The annual meeting of American Drug Manufacturers' Association will be held at the Hotel Biltmore, New York, during the week of April 7, with leading representatives of the industry from all parts of the country taking part in the discussions, which will cover the Federal enforcement of the narcotic law, operation of the Pure Food and Drugs Act, price maintenance and ethics.

The opening day will be devoted to section meetings which include the drug, pharmaceutical and biological divisions. Problems confronting the pharmaceutical industry will be discussed and various committees will report on code of ethics, catalogue simplification and standardization of glass containers. Drs. W. W. Skinner and George W. Hoover will tell of the aims of the U. S. Bureau of Chemistry in the administration of the Pure Food and Drugs Act, and Col. L. G. Nutt, Secretary of the Federal Narcotics Control Board, will speak on the enforcement of the narcotic laws.

INDORSE A.Ph.A. BUILDING PLAN

The new building of the American Pharmaceutical Association will be the best kind of insurance toward the preservation and perpetuation of the profession, says R. P. Fischelis, Dean of the New Jersey College of Pharmacy, and Secretary of the Board of Directors of the A.Ph.A. in a statement indorsing the campaign for funds. Wilber J. Teeters, Dean of Pharmacy, Iowa State University, Iowa City; P. Henry Utech, President, Pennsylvania Pharmaceutical Association; Dr. A. G. Du Mez, Washington, D. C., and others have also contributed statements supporting the campaign.

Announcement has been made by H. A. B. Dunning, Chairman of the campaign committee, of receipt of subscriptions from Johnson & Johnson for \$10,000, Lehn & Fink \$3,000, and Muth Brothers, Baltimore, \$1,000.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 673

ROMAN CHAMOMILE FLOWERS EASIER

Demand Slow and Stocks Plentiful—Arnica Flowers Lower—Copaiba Balsam Sharply Up—Buchu Leaves Easier—Celery Seed Active—All Gingers Firm—Mexican Sarsaparilla Root Softer

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Balsam, Copaiba, S. A., 6c lb.	Ginger, African, 1c lb.	Agar Agar, No. 1, 2c lb.	Buchu Leaves, 3c lb.
Celery Seed, 3c lb.	Lobelia Herb, 1c lb.	Aloes, Curacao, 1/2c lb.	Cascara Sagrada, New Peel, 1/2c lb.
Ergot, 1c lb.	Sandarac Gum, 3c lb.	Arabic Gum, White No. 1, 3c lb.	Chamomile, Roman, 5c lb.
	Snake Root, Canadian, 5c lb.	Arnica Flowers, 1/2c lb.	Sarsaparilla Root, Mex., 1c lb.
		Balsam, Oregon Fir, 5c lb.	Senega Root, 1c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$.50	\$.50	\$.50	\$.40	\$.90	\$.12
Buchu Leaves, Short. ....	.78	.81	.88	.95	4.00	.85
Cantharides, Russian	1.10	1.10	1.10	1.75	9.00	2.10
Cocculus Indicus ....	.03 1/4	.03 1/4	.03 1/4	.03 1/4	.85	.03
Ergot, Spanish ....	.35	.34	.35	.55	4.50	.54
Insect Powder, pure. ....	.66	.66	.65	.75	1.00	.29
Ipecac, Cartagena, powd.	2.19	2.10	2.20	2.00	4.50	1.35
Nux Vomica ....	.05	.05	.05	.07	1.40	.07
Opium, gum	9.00	9.00	8.00	6.75	30.00	5.00
Rhubarb Root, H. D. ....	.31	.31	.34	.42	1.75	.15
Tragacanth, No. 1, ribbon.	1.30	1.30	1.30	1.70	6.00	1.50
Wild Cherry Bk., thin nat. ....	.13	.14	.14	.09	.21	.07
Average	1.37	1.37	1.31	1.29	5.23	1.00

A falling off in contract business has been noted during the past six months and in its place hand-to-mouth buying appears to predominate. Buyers are not willing to anticipate future needs probably due to the general high prices, which they think might react downward most any time. Europe is reported to have been buying heavily from the Orient, outbidding America in a number of instances. Shipment values from the Coast rule firm with the exception of balsams, which have eased off due to slow movement of goods into consuming channels. The same condition will probably confront the gathering of drugs in the South this year as last year, namely, scarcity of labor. Much higher prices for imported botanicals are possible, if the proposed ruling in regard to the discontinuance of the custom of cleaning the drugs, when they do not meet the U.S.P. tests goes into effect.

Arnica flowers have turned easier after an active buying period. Copaiba balsam is higher owing to reduced stocks both on spot and for shipment. Importers are bidding for supplies in primary market, but without results. Buchu leaves have again eased off to slow demand. Celery seed has been active and available supplies are closely held at 33c lb. African ginger is firmer with tendency for all gingers to show strength. Mexican sarsaparilla root has eased off owing to light demand, although stocks carried here are none too plentiful. Roman chamomile flowers are lower.

Aconite Root—Market remains steady at 48c@50c lb. spot.

Agar Agar—Has declined and now quoted at \$1.48@ \$1.50 lb. spot for No. 1, \$1.45 lb. for No. 2, and \$1.40 lb. for No. 3. Shipment quoted at \$1.05 lb. c.i.f. New York for No. 1, \$1.02 lb. for No. 2, and 92c lb. for No. 3. Business on spot has been quiet with tendency for

supplies to show scarcity in spite of the easier quotations.

Aletris Root—While spot is quoted at 58c@63c lb., some directions are shading these figures on firm business.

Aloes—Curacao has declined and now quoted at 11 1/2c @12c lb. spot due to slowing up of demand. Cape quiet at 9c@10c lb.

Anise Seed—Star reported off the market with goods "to arrive" at 14c@15c lb. Spanish quiet at 15 1/2c@16c lb. spot with some houses naming 15c lb.

Arabic Gum—Amber sorts named firm at 12 1/2c@13c lb. spot with replacements named at 57s per cwt. c.i.f. New York, which figures out about 12c lb. at current exchange rates. Last week saw 1,334 bags arabic gum imported at New York from Bombay. One house has raised their price and now name 13c lb. inside for amber sorts.

Arnica Flowers—Has declined and now quoted lower at 11c@12c lb. spot.

Balsams—Copaiba, S.A., has advanced sharply and now quoted at 33c@35c lb. spot, and Para at 29c@31c lb. Several firm offers have been received from the primary market, but importers here state that they are not able to place business even at the figures of the offers. Stocks are low and little material is said to be available in primary market. Oregon fir lower at 1.40 @ \$1.45 gal. spot owing to keen competition among holders. Peru at \$2.00@ \$2.25 lb., although one factor states that \$1.85 lb. would be acceptable.

Belladonna Leaves—Firm at 28c@30c lb. spot with little U.S.P. goods being offered for shipment. Root named at 12 1/2c@13c lb.

Buchu Leaves—Has declined and now quoted at 78c @81c lb. spot for bales, and 87c@89c lb. for less. Demand slow and supplies ample.

Cascara Sagrada—New peel named lower at 27c@29c lb. spot, and old bark at 28c@30c lb. Although business has been quiet on spot, holders on the Coast are firm and little concession is being made from this direction.

Celery Seed—Market has advanced sharply and now quoted at 33c@35c lb. spot due to scarcity and active demand.

Chamomile Flowers—Roman has eased off further and now quoted at 85c@90c lb. spot. Demand has been slow with tendency to accumulation of stocks. Hungarian at 8c@9c lb.

Cloves—Zanzibar quoted at 32c@34c lb. spot as to quantity and seller. Last week saw 1,465 bags entered at New York.

Cotton Root Bark—Quoted easy at 14c@16c lb. spot with possibility of shading these figures on firm orders.

Cuttlefish Bone—Lower at 13 1/2c@14c lb. for Trieste straps.

Dandelion Root—Named firm at 38c@40c lb. spot with some houses holding to 40c lb. inside. Little material available for shipment.

Digitalis Leaves—Steady at 7c@8c lb. spot with shipment supplies of poor quality, according to reports.

Ergot—Higher at 35c@37c lb. spot.

Gentian Root—Easy and quiet at 8 1/2c@9c lb. spot.

Ginger—African has advanced and now quoted at 17c @18clb. spot, and Jamaica at 34c@38clb. as to quality.

Henbane Leaves—Easier at 36c@38clb. spot.

Insect Powder—Spot quoted at 66c@68clb. with March shipment of flowers at 48clb. c.i.f. New York. Statistical position of this item is too high, according to one factor in the trade.

Ipecac Root—Cartagena steady at \$1.95@\$2.00lb. spot for whole, and \$2.10@\$2.20lb. for powdered. During past week 19 bags were entered at New York.

Japan Wax—Supplies on spot closely held at 20c@21clb. with Apr.-May shipment named at 15¼clb. c.i.f. New York.

Larkspur Seed—Named at \$1.30@\$1.35lb. spot with possibility of doing \$1.25lb.

Quince Seed—Market quiet at 95c@\$1.10lb. spot as to quality and seller. Good Capetown material held at \$1.05lb.

Saffron Flowers—Spanish quoted at \$30.50@\$32.00lb. spot as to seller with some houses inside at \$32.00lb. Lower values not warranted in view of high replacement costs. American at 78c@80clb.

Sarsaparilla Root—Mexican has declined and now quoted at 30c@32clb. spot owing to slow demand. Honduras at 61c@65clb.

Senega Root—Although spot supplies are none too plentiful, the market has eased off slightly and now 63c @66clb. is quoted in a limited way only.

Senna—Siftings lower at 10½c@12clb. spot, and pods at 12c@14clb.

Snake Root—Canadian higher at 45c@50clb. spot. Stripped reported off the market.

Wormseed—Levant held firm at \$4.00lb. spot, and American at 8½c@9clb.

CRUDE DRUGS STEADY IN MARSEILLES

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, France, Feb. 16.—The market for crude drugs is steady and prices are well maintained. Quotations per 100 kilos are:

	Francs
Agar Agar	50@54
Albumin, egg	4,700@4,800
Anise seed, Levant	500@550
Benzoin	410
Cardamoms	1,080@1,100
Camphor	3,650@3,700
Cloves, Zanzibar	1,250
Galanga	300@315
Pimento, Jamaica	200@225
Saffron	120,000
Opium	Nominal
Resin, Bayonne blanche	125
Cumin, Bombay	900@925
Cumin, Morocco	975@1,000
Citric acid	1,225@1,350
Tartaric acid	975@1,000
Fennel	350@400
Foenugreek	140@160

Ralph B. Wattley and other stockholders of the National Drug Stores Corp., New York, have been denied an injunction by the New York Supreme Court, aimed to prevent the sale of the company's Times Square, New York, store to the Louis K. Liggett Co.

The steamship Hawaii Maru, which arrived at Seattle, recently, carried 17 cases of quinine bisulfate consigned to Vietor & Hosken and 75 bales of insect flowers for Bank of Montreal, Vancouver, B. C.

P. C. Cahill, of J. L. Hopkins & Co., New York crude drug millers, became the father of a baby girl born Feb. 20.

CRUDE DRUGS IN KEEN COMPETITION

Prices 50% Higher Than 1923—Piecemeal Buying in Evidence—Price Lists Issued Without Prices—High Foreign Botanicals Offset by Lower Domestic Drugs

Piecemeal buying in crude drugs has resulted in lessened volume of business and a proportional decrease in profits, with the result that in order to make a profit in botanicals, a study of primary market conditions and comparisons with spot prices becomes more necessary as competition sharpens. Some houses are sending out "price lists without prices," thereby endeavoring to get back to quality and good-will. Last Fall sellers viewed the situation differently and prices were advanced as fast as the trade would assimilate them. On a downward swing competition naturally sharpens, since the carrying charges on crude drugs run into large amounts, especially in the Metropolitan district.

Prices are about 50 per cent higher than a year ago and no sudden easing off is expected considering the market as a whole, according to the trade. Values may settle to lower levels, say dealers, but the change will not be sharp owing to the scarcities that develop almost daily. The high prices for shipment from abroad are partly offset by the easier primary markets on domestic botanicals, due to the open Winter, which has allowed gathering of drugs to continue longer than usual.

CRUDE DRUG IMPORTS IN 1923 AND 1922

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 27.—Imports of crude drugs and gums in 1923 compared with 1922 are shown in the following table prepared by the Chemical Division, Department of Commerce, in co-operation with the Chemical Division of the Tariff Commission:

	1923		1922	
	Quantity Pounds	Value Dollars	Quantity Pounds	Value Dollars
Gums, resins and balams				
Copal, damar and				
kauri gums	33,466,818	4,087,621	20,401,473	3,500,355
Shellac	26,162,510	14,915,636	38,446,775	22,965,251
Camphor				
Crude, natural	2,460,201	1,553,572	3,486,082	2,214,008
Refined & synthetic	2,690,830	1,880,797	4,002,243	2,880,883
Gum Arabic	8,191,736	798,010	9,857,708	1,299,788
Gambier	9,003,374	433,307	6,321,653	442,816
Drugs, herbs, leaves, etc.				
Cinchona bark	2,503,615	921,700	2,816,503	778,983
Pyrethrum flowers ..	3,593,971	1,198,232	2,973,863	1,397,910
Nux vomica	1,282,961	68,079	2,196,161	95,927
Licorice extract	1,578,702	386,635	1,281,618	274,679
Licorice root	56,129,388	3,214,796	64,824,928	2,360,084

Walding, Kinnan & Marvin Co., Toledo wholesale drug house, gave a dinner and entertainment for its employees on Feb. 8, at the Toledo Chamber of Commerce quarters. R. H. Bradley, president of the company, addressed the hundred representatives of the firm who were present.

Quinine manufacture from cinchona bark in Ecuador is a commercial possibility, according to J. C. Treadwell, who is in charge of the United States Rubber Commission, which is making an investigation of the conditions for raising rubber, in South America.

Representative Porter of Pennsylvania has introduced a bill in the House prohibiting the importation of crude opium for the purpose of manufacturing heroin. The bill has been referred to the Ways and Means Committee of the House.

Spanish saffron in Constantinople originates usually from Salonica, according to American Vice Consul Herbert S. Bursley, and at the present time only about 10 kilos are available for shipment.

The Essential Oil Market

Current Spot Quotations of Essential Oils, 677, Aromatic Chemicals, 678

OIL CITRONELLA EASIER ON SPOT

Possible to Shade 75clb. for Schimmel Tested Oil—Oil Peppermint Sharply Higher—Oil Bourbon Geranium 10% Higher for Shipment—Oil Wormseed Lower—Oil Sassafras Lower—Oils Anise and Cassia Firm

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Linaloe, 25c lb.	Oil Peppermint, Nat'l., 15c lb.
	Oil Vetivert, Bourbon, 80c lb.
Declined	
Oil Citronella, Ceylon, Sch. Test	Oil Wormseed, 10c lb.
5c lb.	Acetophenone, C.P., 40c lb.
Oil Sassafras, U.S.P., 10c lb.	D.ethyl Phthalate, Drums, 5c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$3.00	\$3.00	\$2.90	\$2.60	\$7.00	\$5.00
Oil Citronella, Ceylon	.75	.80	.90	.72	.92	.60
Oil Cloves	2.30	2.30	2.30	2.00	3.70	1.40
Oil Lemon, Italian	.80	.80	.75	.70	1.70	2.00
Oil Peppermint, Nat'l.	3.60	3.35	3.25	2.85	9.00	2.25
Oil Sandalwood, E. I.	6.75	6.75	6.75	7.30	13.00	5.25
Oil Sassafras, Artif.	.37	.37	.38	.42	1.00	.25
Benzaldehyde, U.S.P.	1.50	1.40	1.50	1.40	5.15	1.50
Coumarin	3.85	3.85	3.85	4.00	31.00	3.10
Methyl Salicylate, Caps.	.47	.47	.47	.57	1.00	.90
Vanillin	.54½	.54½	.54½	.45	.56	.20
Average	2.16	2.14	2.15	2.04	6.83	2.05

While consuming demand has not been as brisk as a week ago, prices are well maintained and several oils have registered the highest levels for the year. All primary markets appear to be steadily advancing and orders are being filled at the higher quotations, although perhaps in smaller volume than usual. However, if consumers come in the market for sufficient quantities, higher prices on spot will, no doubt, be inevitable, according to several dealers. The break in the week owing to the holiday caused a slackening of buying. Further recoveries in prices of oils have been made during the past week, and if firmness continues, most all of the declines noted in January will have been regained.

Oil peppermint has advanced on spot in sympathy with prices in the country. Some business was reported to have been placed at \$3.50lb. for shipment. Country holders appear to be in strong position. Oil Bourbon geranium is quoted higher for shipment owing to active buying. Oil wormseed is lower on spot. Oil sassafras is easier due to recent arrivals, which has relieved the shortage in this market. Oil anise is firm at prices quoted, but no change is expected immediately in spite of foreign position. Oil cassia is firm for shipment, and some factors say that this condition is temporary only. Oil citronella is easier on spot for Schimmel tested oil. Pure oil is firm, however.

Oil Almond—Sweet firm at 35c@40clb. spot as to quantity with possibility of higher figures. Bitter U. S. P. named at \$3.25@3.75lb., and fPA at \$3.50@3.75lb.

Oil Angelica Root—Quoted quiet at \$38@39lb. spot, and seed at \$36@38lb.

Oil Anise—Conditions on spot unchanged at 41c@45c lb. for U. S. P., and 40c@42clb. for technical. Hong-kong market is still bare of supplies, according to latest reports. Available stocks ample for all requirements, and no change is expected unless unforeseen demand sets in. The latest explanation for heavy supplies on

spot is said to be due to the absence of buying from German sources, which has allowed an accumulation of goods in other markets.

Oil Bay—Quiet and in small demand at \$2.50@2.60 lb. spot.

Oil Bergamot—Coppers firm at \$3.00@3.15lb. spot with replacements at \$2.95lb. c.i.f. New York. Little cheap material available here. Buying has been active, especially between dealers.

Oil Bois de Rose—Firm with tendency to scarcity at \$3.50@3.65lb. spot.

Oil Caraway—Little interest is being shown for this item at the moment at \$8.25@8.50lb. spot.

Oil Carvol—Quiet at \$17@18lb. spot.

Oil Cassia—No further developments have been heard in regard to the primary market. Holders there are firm in their ideas, and whether or not this situation is justified, will probably come to light in the near future. One factor is of the opinion that this firmness is for short duration only. Redistilled at \$2.25@2.35 lb. spot, and natural at \$1.65@1.75lb. in drums.

Oil Cedar Wood—Firm at 30c@32clb. spot.

Oil Citronella—Schimmel tested oil has declined and now quoted at 75c@80clb. spot in drums, and 77c@82c lb. in tins. Pure still held at 95c@1.00lb. in drums. Little buying reported for future delivery. Java firm at \$1.05@1.10lb. in drums.

Oil Cloves—Market is weak at \$2.30@2.40lb. spot for U. S. P. in cans, and \$2.40@2.50lb. in bottles.

Oil Coriander—Supplies sufficient for all requirements at \$14.75@15.00lb. spot.

Oil Eucalyptus—Demand from consuming channels with business fair between dealers showing the more activity at 75clb. spot in drums, and cases at 75c@85c lb. as to test. Deliveries on contracts are reported on increase, and the recent pinch appears to have passed.

Oil Geranium—Bourbon steady on spot at \$6.50@6.75 lb. with shipment quoted 10 per cent higher, according to late cables. Recent buying in France has sent the price up; and still higher prices are predicted owing to limited stocks in primary market. Algerian at \$7.00@7.50lb., and Turkish at \$4.50@4.75lb.

Oil Lavender—U. S. P. named at \$4.50@6.00lb. spot as to quality and seller. Spike quoted at 90c@1.00lb. with some poor quality at lower levels.

Oil Lemon—Italian firm at 80c@95clb. spot as to seller with replacements slightly below these figures. Reports are heard that speculators are busy in Italy and are buying everything in sight. American at 75c@80clb.

Oil Linaloe—Has advanced and now quoted at \$3.50 @3.75lb. spot owing to scarcity both here and for shipment.

Oil Orange—Italian in active demand at \$3.10@3.35 lb. spot as to seller and brand. Primary market firm with tendency to higher figures. West Indian at \$2.45@2.55lb. spot. American at \$2.85@2.90lb.

Oil Peppermint—Has advanced sharply and now quoted at \$3.60@3.85lb. spot for natural, and \$3.75@4.00lb. for redistilled as to holder. Reports are heard that business has been transacted as high as \$3.50lb. in the country.

Oil Petit Grain—South American steady at \$1.75@ \$1.85lb. spot with shipment about equal to values here. Italian at \$2.25@ \$2.35lb.

Oil Sassafras—Has declined and now quoted at \$1.70 @ \$1.80lb. spot for U. S. P. in cans.

Oil Vetiver—Firmer at \$9.00@ \$9.50lb. spot owing to scarcity.

Oil Wormseed—Spot named lower at \$6.50@ \$7.00lb. as to seller. Country holding firm, although little buying is reported for shipment.

Aromatic Chemicals

Acetophenone—Quoted lower at \$4.25@ \$4.50lb. spot.
Amyl Butyrate—In small demand at \$1.75@ \$2.00lb. spot.

Coumarin—Makers report an active market at \$3.85 @ \$4.00lb. spot. Resales at \$3.85lb.

Diethyl Phthalate—In active demand at 40c@ 45c lb. spot in drums, and 50c@ 55c lb. in cans.

Methyl Salicylate—Quoted at 45c@ 47c lb. spot as to quantity.

Phenylacetaldehyde—In active demand at \$9.50@ \$10.50lb. spot for 50 per cent domestic material, and imported at \$10.00@ \$12.00lb. Some consumers show preference for higher testing material. Named at \$16@ \$18lb. for 80-85 per cent goods.

Tolu Balsam—Spot holders name \$2.00@ \$2.25lb. as to quantity.

The Tin Market

Tin—Market has declined slightly over last week and now quoted at 54½c lb. spot for Straits and shipment at 54c lb. Standard named at 54c lb. and 99 per cent at 53½c lb. Consumers in this market appear to be well supplied for at least three to four months, and unless they are approached with lower prices, the trade thinks that buying will ease off. Arrivals thus far this month follow: 6,890 tons at Atlantic ports, 205 tons at Pacific ports, and 6,600 tons afloat.

"Uses of Alcohol in Scientific Research and Lawful Industry" is the title of the official pamphlet covering the statements and recommendations submitted on Oct. 20 last, to the Bureau of Internal Revenue by the Alcohol Trades Advisory Committee. Senator Bayard, who requested that it be made a Senate document, has familiarized himself thoroughly with the importance of alcohol, from the standpoint of science, industry and national welfare, and is in accord with the recommendation of the Alcohol Trades Committee that the administration of the legitimate uses of industrial alcohol be separated entirely from the prohibition enforcement.

A bill levying a tax of 15 per cent on miscellaneous articles, including toilet articles, has been introduced in the Mississippi legislature, according to information given out by Thomas J. Hickey, attorney for the Chicago Perfumery, Soap and Extract Association.

R. O. Wells, formerly of Wangler-Budd Co., New York, will represent Orbis Products Trading Co., New York, importers of essential oils and aromatic chemicals, as representative in the New York district, commencing Mar. 1.

Saccharin's sweetness, compared with that of sugar, increases upon dilution. It is 190 times as sweet at a concentration of 5 parts in 6,400 parts water: at a concentration of 5/204,800 it is 675 times as sweet as sugar.

Exports of spike lavender from Spain to United States during nine months ended Sept. 30 were 36,693 pounds, valued at \$22,402, compared with 99,171 pounds, valued at \$75,965, for twelve months in 1922.

JASMIN AND OTHER PERFUMES SCARCE

Jasmin perfume is one which cannot easily be obtained from synthetic products, and at the present time consumption is greater than production, according to the "American Perfumer": "If this condition continues demand will come from all parts of the world. Some products, such as the pomade, the flower absolute from pomade and others, are entirely used up and cannot be found at any price. Oil African geranium is used up and the market price of the little which remains for sale has risen considerably. No more oil will be available until next May. Distillation of oil Bourbon geranium has begun and the market price has dropped a good deal, but a demand may appear any day and the price rise suddenly. Stocks of lavender are used up except a few lots with low ester content, and during the past few weeks the market has advanced sharply. Oil spike lavender has been in demand owing to scarcity of the U.S.P. product."

MENTHOL PRICE DROPS TO \$11.75 SPOT

Spot menthol in cases has dropped to \$11.75 lb. in New York. Reports indicate that actual orders might bring out less than this. Predictions that prices will be higher in Japan than in New York during the next 60 days, are heard in the trade. A leading factor states \$11.00 c.i.f. for prompt shipment is the price in Japan. Kobayashi and Nagaoka are reported to have sold 200 cases at \$8.75 c.i.f. New York for Jan.-Mar. shipment. They will not be able to make shipment until April, according to the report, and Suzuki is squeezing them by bullying the Japanese market. Demand in New York is small and dealers are trying to force case business by holding less than case lots at \$12.50 lb. Competition between New York holders has become extremely keen, and the trade looks for lower prices on spot. The leading importers, who have controlled this market for some time past, are now facing a fight from outsiders.

Oil cassia has been in fair demand and is dear on spot as well as to arrive, according to "Chemist and Druggist," of London. "Java citronella has advanced in price. Ceylon oil is quiet and easier. Some sellers report a firmer spot market for star anise, but supplies are still obtainable around the previous figures. West Indian orange has a firmer tendency, but Sicilian oil is easier. Geranium oils are cheaper on the spot. Japanese mint oil is cheaper to arrive, and spot is a shade easier."

The Chicago Perfumery, Soap and Extract Association is opposed to the passage of the Ernst-Wood or Crampton bills as being against the interests of the trade. These bills, providing that the prohibition unit be taken out of the jurisdiction of the Commissioner of Internal Revenue, have recently been indorsed by the Chamber of Commerce of the United States.

"Little interest has developed since our last report, and although real activity is lacking, very fair business is being done and the market shows a decidedly healthy tone," says, Chas. L. Huisking, essential oil and crude drug brokers.

A perfumery exposition will be held at the 71st Regiment Armory during the week of March 3, at which there will be exhibited perfumery, toilet articles and other boudoir requisites of American and foreign manufacturers.

Lentheric, Inc., New York, a Delaware corporation, has increased its capitalization from \$200,000 to \$10,000,000.

The Foreign Markets

Imports of Drugs and Chemicals, page 681

CASCARA HIGHER IN LONDON

Advance in Menthol Announced—Carbolic and Tartaric Firmer—Potassium Carbonate Lower—Quotations Higher for Antimony, Shellac and Castor Oil—Volume of Trade Fair

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Feb. 27.—Trading in crude drugs and medicinal chemicals started the week with a fair volume of business. Advances were announced on cascara sagrada, antimony, menthol, shellac and castor oil.

The market is much firmer for carbolic acid and tartaric.

Carbonate of potash is lower.

The British Government has reduced the tax on German imports to 5 per cent.

London, Feb. 16.—(By Mail)—Annual reports of various industrial organizations are, without exception, of a favorable nature regarding last year's trade and the prospects for the coming year. These reports strike too optimistic a note with regard to the present position of the heavy chemical industry, which is still depressed. In drugs and fine chemicals there has been a further slackening off in business and only few changes of importance are recorded. The feature of the week has been the continued upward movement in Ipecac Matto Grosso. The Continental demand for honey is not yet satisfied and is commanding full rates.

Santonin—The official price has been raised from the 9th inst. to £69 per kilo in 5 kilo lots.

Cod Liver Oil—The new fishing has just begun in Norway and the results, so far, are exactly similar to last year. When Easter is late, as it is this year, the catch in the Northern districts is usually larger, owing to the longer period till Easter, when the fishermen regularly move South.

Fine chemicals are mostly easier owing to the disturbing uncertainty of the reparation tax of 26 per cent which the Germans still decline to pay.

BRITISH CHEMISTS' EXPOSITION JUNE 23

The Twenty-Seventh Chemists' Exhibition, organized by the "British and Colonial Pharmacist" will be held in Central Hall, facing Westminster Abbey, London, from June 23 to 27. All members of the drug and chemical trades who are in England during the week will receive a cordial welcome on presentation of professional or business cards.

A rich vein of mercury ore, varying in width from two to six feet and believed to be over seven miles in length, has been discovered in Japan, according to recent reports. The vein, which should make Japan independent of the rest of the world for its supplies of mercury, is located near Kita Unonome in the upper Goto Archipelago of Japan and is said to contain more than 18 per cent mercury.

Cherowag Chemikalien and Rohwachs A. G., Hamburg, has been recently organized to manufacture chemicals with capitalization of 500,000,000 marks, according to the Department of Commerce. Wilhelm A. Werth, Godesberg on Rhine, manufacturers of pharmaceuticals, has also been organized with a capital of 150,000,000 marks.

FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling)	\$4.866	\$4.316
France (franc) .....	.193	.042
Italy (lira) .....	.193	.043
Germany (mark) per hundred	23.80	
Czechoslovakia (crown) per hundred	20.30	2.90
Poland (marks) per hundred	23.80	.00001
Japan (yen) .....	.439	.452
Holland (guilder) .....	.402	.374
Spain (peseta) .....	.192	.127
Belgium (franc) .....	.193	.037
Switzerland (franc) .....	.193	.173
Sweden (crown) .....	.268	.261
Denmark (crown) .....	.268	.159
Argentina (peso) .....	.424	.342
Brasil (milreis) .....	.324	.121
China (Silver dollar—Hongkong) .....	.789	.507
(Tael—Shanghai, silver)	1.082	.707
(Tael—Peking, silver)	1.156	.737

TUNIS PHOSPHATE OUTPUT 2,150,000 TONS

One-fourth of the world's production of phosphates comes from Tunis, says Dr. James Raider Mood of the Department of Commerce in a handbook on the resources and trade of that French Protectorate in North Africa, just published by the Department. Tunis ranks second in the list of phosphate producing countries, with the United States first. Enormous deposits of phosphates were discovered in 1895, but it was not until ten years later that they began to be seriously exploited. Seven important companies are operating in the phosphate fields, all French but one, which is financed by Italian capital.

Practically all the phosphate is exported, most of it to France, and French colonies and to Italy. Exports in 1920 amounted to 1,359,000 tons, in 1921 to 1,467,000 tons. Estimated exports for 1922 were 2,150,000 tons. Other mineral resources of Tunis include lead, zinc, iron, manganese, copper, lignite, coal, bromine, and salt.

Post-war imports in India are still below pre-war figures, but are steadily increasing, according to reports to the Department of Commerce from Vice Consul Harold Schultz, at Calcutta. American sales of dyes to India before the war were negligible, but in 1920, total sales amounted to 2,832,554 pounds. Since then, Germany has regained its pre-war standing and American sales dropped to 690,224 pounds.

British imports of naphtha during 1923 amounted to 2,670,622 imperial gallons against 2,200 imperial gallons in 1922. Re-exports for 1923 amounted to 20,889 imperial gallons, decreasing from 208,585 imperial gallons in 1922. (British imperial gallon equals one and one-fifth United States gallons.)

The former German nitrate works at Chorzow, Poland, intend to increase their production considerably. Besides synthetic Chile-saltpetre, they will make nitric acid, liquid ammonia, and oxygen. The production of carbide also is to be increased.

Salt supplied to Japanese alkali manufacturers by Spanish interests is a possibility owing to inability to make satisfactory arrangements for this material with the Chinese authorities at Tsingtao.

Motor spirits has been advanced 4½d per gallon throughout the United Kingdom and Irish Free State.

SWEDEN'S HYDROCHLORIC ACID OUTPUT

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Stockholm, Sweden, Feb. 16.—Sweden's imported and exported hydrochloric acid has a strength of about 20 degrees B. The production of hydrochloric acid began in Sweden about 1870 at the factories of Lovholmen and Ostra Torp, and the first sulfate factory was opened in 1911. The production, import, export and consumption of hydrochloric acid, in tons, is shown in the following table:

Years	Import	Export	Consumption	Production
1916	1,558	14	2,620	1,796
1918	711	1,273	8,002	9,264
1919	905	289	3,329	2,708
1920	1,249	801	6,177	5,729
1921	389	90	1,180	881

Sweden has no statistics on sodium sulfate previous to the year 1909. In 1914 the statistics for the first time differentiated between sodium sulfate and bi-sulfate. The production during the years 1909-1911 was principally bi-sulfate. During the later years a small quantity of Glauber salt is included in the production figures. The export previous to 1911 was mainly bi-sulfate and some Glauber salt. The import is exclusively neutral sulfate. The consumption figures before 1916 are uncertain. Production, import, export and consumption of sodium sulfate, in tons, was as follows:

Years	Sulfate	Bi-sulfate	Import	Export	Consumption of neutral sulfate
1916	4,171	2,662	54,954	7,764	51,361
1919	2,814	1,440	13,475	1,518	14,971
1920	2,743	1,014	51,127	1,921	51,949
1921	1,229	312	14,079	49	15,259

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquiries; the usual precautions should be taken in all cases.

Commodity	Number	City and Country	Purchase or Agency
Chemicals	8995	Bordeaux, France	Agency
Chemicals, industrial	8973	Athens, Greece	Agency
Fertilizers and fertilizer materials	8909	Charlottetown, Canada	Purchase
Glue, fish	8952	Danzig	Purchase
Indigo blue	9000	Port au Prince, Haiti	Agency
Manganese peroxide from Montana	8996	Rotterdam, Netherlands	Purchase
Paints and varnishes	8942	Lucca, Italy	Agency
Soda and potash, prussiates and bichromates of	8974	Barcelona, Spain	Agency
Drugs	8974	Barcelona, Spain	Agency
Pharmaceutical preparations	9000	Port au Prince, Haiti	Agency
Acid for cleaning backs of mother-of-pearl shells	9074	Panama, Republic of Panama	Purchase
Carbon black	9008	Shanghai, China	Purchase
Chemical products	9063	Rome, Italy	Agency
Glycerin, U. S. P.	9013	Shanghai, China	Purchase
Pharmaceuticals	9065	Colombo, Ceylon	Purchase
Caustic soda and soda ash	9117	Amritsar, India	Purchase
Caustic soda, 50 to 100 tons monthly	9124	Frankfurt, Germany	Purchase
Fertilizers	9133	Barranquitas, Porto Rico	Agency
Magnesium chloride, 10 to 20 tons monthly	9105	Durban, South Africa	Purchase
Matches	9133	Barranquitas, Porto Rico	Agency
Paint, luminous	9091	Vienna, Austria	Purchase
Paints	9079	Latin America	Agency
Potash	9144	Mexico City, Mexico	Purchase
Drugs and patent medicines	9106	Hongkong, China	Agency
Medicines, homeopathic	9118	Santos, Brazil	Purchase
Toilet preparations	9124	Johannesburg, S. Afr.	Agency
Chemicals	9181	Copenhagen, Denmark	Agency
Chemicals	9202	Stockholm, Sweden	Agency
Soda, cyanide of	9187	Mexico City, Mexico	Agency
Tar and tar substitute	9168	Johannesburg, S. Africa	Agency
Drugs and proprietary medicines	9145	Mexico City, Mexico	Agency
Pharmaceutical preparations	9178	London, England	Agency
Proprietary medicines	9177	London, England	Agency

EGYPT'S DRUG EXPORTS TO UNITED STATES

Gum Arabic, Wild Senna and Henna Among the Raw Materials Shipped in Bulk

Gum Arabic is produced principally in the Kordofan Province of the Sudan. "Kordofan" gum is generally considered the finest gum produced. The annual production varies from 10,000 to 16,000 tons. Exports to the United States in 1922, were about 3,000 tons valued at approximately \$410,000, writes Consul Wadsworth, Cairo, Egypt. Latest (November, 1923) export quotations of gum arabic F.A.S. Port Sudan per unit of 100 pounds were:

	(Approximately)	pound
Hashab	£. E. 1.925	\$0.086
Talh	0.900	0.040
Bleached	3.000	0.134

Apart from French West African gum which amounts to some 3,000 to 4,000 tons annually, there are no other commercial sources of supply.

Wild senna is brought into the Sudan markets from the Nuba Mountains, Berber and Dongola Provinces and cultivated senna from the Berber and outlying districts of the Khartum Provinces. The estimated annual production is; Wild, 200-300 tons; cultivated, 250 tons. In 1922 the exports to the United States equaled about 150 tons valued at approximately \$45,000. The latest (November, 1923) export quotations F.A.S. Port Sudan, per kilo, were:

	(Approximately)	pound
Whole leaves and broken	£. E. 0.052	\$0.106
Pods	0.052	0.106
Siftings	0.032	0.065
Mixed uncleaned	0.013	0.026

Henna is not grown in the Sudan but is a summer crop of Lower Egypt. In 1922 slightly over 1,500 acres were under cultivation. Exports to the United States in 1922 were about 110 tons valued at approximately \$33,000, while the total exports to all countries amounted to almost 1,000 tons valued at about \$230,000. November, 1923, export quotations for henna leaves were in the neighborhood of \$0.052 per pound C.I.F. New York, exportations being made on direct steamships from Alexandria.

Owing to the increased demand for arsenic for insect destruction the arsenic deposits in Hastings County, Ontario, are attracting attention as a source of supply. American interests are negotiating for the property of Joseph James, comprising 40 acres which in addition to high grade arsenic carries "ore having a gold content of \$3 to \$4 per ton."

Kochelwerk A. G., Berlin, has been organized under direction of Handelszentrale fur Industrie Erzeugnisse A. G. and the Rutgerswerke A. G., and will take over the dye factory in Kovhel, Upper Bavaria, for the manufacture of lime dyes by a new process, which will increase the uses of dyes, according to the Department of Commerce.

Failures of chemical and drug manufacturers in Canada during 1923 were 11 in number with aggregate liabilities of \$179,134; compared with 7 failures with liabilities of \$48,155 in 1922. Failures of dealers in chemicals and drugs numbered 52 with total liabilities of \$388,702, against 46 failures with \$315,130 liabilities in 1922.

The French Chamber of Deputies has approved the abolition of the Government monopoly in matches.

U. S. LEADS IN POTASH PROCESS

Commenting on processes for obtaining potash from cement dust, the "Chemical Age," London, says: "There are probably some twenty collecting plants now in operation in the United States in connection with cement works, and, in spite of the fairly heavy initial outlay which is demanded in the way of precipitators, it is firmly believed that the process has come to stay and that it will eventually prove one of the most important of American sources. Innumerable processes have been devised for rendering the potassium compounds more soluble, and it is possibly the lack of definite practical data as to how these methods have progressed which has discouraged the adoption of the system over here.

"It would appear, however, that in America the problem is not being allowed to rest, and we recently came across a promising development which has been introduced by F. W. Huber, of Los Angeles. This investigator has found that if the cement flue dust has added to it (either before or after leaching with water) a proportion of carbon, such as powdered coal, equal in weight to the K_2O content of the dust, and also mixed with lime, a mass is produced which by heating in a rotary kiln to a temperature of some $800^{\circ}C$. yields a product in which practically the entire content of the potassium compounds is rendered soluble in water and can be removed by leaching. The washings are finally filtered and the filtrate is evaporated to recover the potassium compounds."

Professor Irving Fisher, of Yale University, says last week's prices averaged 152.4 per cent of pre-war level and that the purchasing power of the dollar was 65.6 pre-war cents.

Books of Trade Interest

A COURSE IN GENERAL CHEMISTRY. By William C. Bray, of University of California, and Wendell M. Latimer. 148 pages, 8vo. The MacMillan Co., New York. 1923.

The aim of this book is not simply to give out knowledge of chemistry, but through it to interest the reader in general science. The material has been selected and arranged with the idea of so interlocking the theoretical and experimental parts that each supports the other in the final structure.

INDUSTRIAL HEALTH. Edited by George M. Kober, M.D., and Emory R. Hayhurst, M.D. 1184 pages, 8vo. P. Blakiston's Son & Co., Philadelphia, 1924.

The aim of the editors has been to present the basic data of industrial efficiency which results from personal efficiency and the intelligent and scientific control of the environment in the work-shop and in the home. The present volume is an extensive revision and amplification of the original material by practically all of the respective contributors, bringing it up to date and including the more recent literature in a broad way.

SYSTEMATIC SURVEY OF RUBBER CHEMISTRY. By Clayton W. Bedford and Herbert A. Winkelmann. 376 pages, 8vo. The Chemical Catalog Co., New York. 1923.

The rubber industry has been in recent years, through its chemists and engineers, more open in co-operative endeavor than during its entire history. This contribution to the literature of rubber may justly be said to be offered as an expression of that open-mindedness which has now become prevalent, and with the hope that research work may go on more freely.

1916 **CHEMICALS** 1924

"Over a Century of Service and Progress"

CAUSTIC SODA

"CARRARA" FILLER

RUBBER MAKERS' LIME

CARBON TETRACHLORIDE

INNIS, SPEIDEN & CO., Inc.

Manufacturers, Importers, Exporters of
Industrial Chemicals

46 CLIFF STREET, NEW YORK

BRANCHES:

Chicago
Philadelphia
Boston
Cleveland
Gloversville, N. Y.

FACTORIES:

Niagara Falls, N. Y.
Jersey City, N. J.
Murphysboro, Ill.
Owego, N. Y.



Faith in the dyestuffs and
faith in the business
methods of this company
have given us an enviable
list of customers. Our
best efforts are devoted to
meriting a continuance
of their confidence.

Stocks carried in New York, Boston,
Philadelphia and Chicago.

THE HELLER & MERZ CO.

505 HUDSON STREET NEW YORK

Boston Chicago Philadelphia
287 Atlantic Ave. 109 W. Austin Ave. 114 Market St.
Springfield, Mass.
24 Lester St.

Chemicals for Consuming Industries

Heavy Chemicals, pages 654-656; Fine Chemicals, 652-654; Fatty Oils, 671

FRACTIONAL ADVANCES IN CHEMICALS

Producers Advance Copper Sulfate—Imported Epsom Salt Again Higher—Imported Caustic Potash Up—Potash Permanganate Lower and Weak—Casein Easier—Litharge Higher

Although demand from consuming quarters has not moved out of routine channels this week, numerous fractional price changes in industrial chemicals have been noted. The bulk of price movements have been upward. A generally firmer tone in imported chemicals seems to be working into the market, as little by little, spot prices for foreign goods strengthen. On the stronger metal position, American copper sulfate producers have advanced prices ten cents. Litharge is higher. Air floated carbon black is in active demand. Imported Epsom salt, and caustic potash are again higher. Sodium hyposulfite, barium nitrate, sodium acetate, sodium chlorate, and tin oxide are also higher. Nickel sulfate is firmer. Potash permanganate is lower and weak in keen selling competition, as the American producer meets low prices for imported goods. Shipment casein from South America is slightly easier at 8½¢ c.i.f. Sharper competition is reported in diphenylguanidine.

Leather Chemicals

	Trend of the Market					Pre-War
	Today	Last Week	Last Month	Last Year	War Peak	
Acid, Acetic, 28%	\$3.38	\$3.38	\$3.38	\$3.17½	\$17.00	\$1.50
Acid, Formic, 90% .....	.14	.14	.14	.16	1.50½	.07
Acid, Lactic, 22% dark....	.04½	.04½	.04½	.04½	.07	.02
Potassium Bichromate ..	.09½	.09½	.09½	.10	.65	.06½
Epsom Salt, tech.	1.80	1.80	1.80	1.85	3.75	1.00
Sodium Prussiate, Imp....	.11½	.11½	.11½	.19	1.25	.18
Soda Ash, 58% wks....	1.38	1.38	1.38	1.45	4.10	.69
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04½
Sodium Hyposulfite	2.75	2.75	2.75	3.00	3.75	1.50
Sodium Sulfide, 60% wks..	.03½	.08½	.08½	.04½	1.04	.02½
Average .....	.981	.981	.981	1.009	3.267	.528

Leather chemicals have been in more or less routine demand with prices remaining fairly steady at their former levels. Imported technical Epsom salts continue in small supply and prices are decidedly firmer in this item. Bichromates have been moving in better volume and producers are firm at their present levels. Sal ammoniac is firm, especially the imported material which is in small supply at present. Formic acid supplies are small and importers are firm at recent prices. Sodium sulfide is moving well. Neatsfoot oil has again advanced as supplies in producers' hands have grown smaller. Tallow is slightly easier. Linseed oil has been strong while castor oil is firm at the recent advance. Extracts are holding at recent prices with occasional shading here and there.

Acid, Acetic—The situation remains about the same with demand from some sections active and others quiet. The raw material market is not as stable as it has been but present prices are being maintained. Makers quote acids at \$3.38@\$.63 for 28 per cent; 56 per cent, \$6.75@\$.70; 70 per cent, \$8.38@\$.63; glacial, \$12.78@\$.13.53.

Acid, Formic—Importers are quoting the 90 per cent material at 13¢lb. while the 85 per cent grade is offered

at 13¢lb. Supplies are limited and have been difficult to obtain from abroad while domestic costs are too high to permit its manufacture at present prices.

Acid, Lactic—Little change in the situation with supplies moving out regularly and prices holding steady. Dark, 22 per cent, quoted at 4½¢@5¢lb. and light, 5½¢@6¢lb.; 44 per cent dark at 9½¢@10¢lb. and light, 11½¢@12¢lb.; 66 per cent, dark, 14½¢@15¢lb. and light, 25¢@30¢lb.

Arsenic—Routine demand with red sulfide named at 15¢@15½¢lb.

Sal Ammoniac—Imported white is in limited supply at present and prices are firm at 6½¢@6¾¢lb. Domestic named at 7¼¢@8¢lb.

Epsom Salt—Domestic makers continue to quote the technical at \$1.80@\$.200 while imported is stronger and higher at \$1.25@\$.130. U.S.P. material quoted at \$2.10@\$.250 for domestic and \$1.75@\$.225 for imported.

Extracts—No large volume of buying is reported but consumers are taking supplies in small quantities. Prices are generally quoted as follows: Archil, 14¢@17¢lb.; chestnut, 1¼¢@2¢lb.; cutch, Borneo, 4¼¢@5½¢lb.; Rangoon, 13¢@16¢lb.; fustic, 10¢@12¢lb.; gambier, 8½¢@9½¢lb.; cubes, 18¢@19¢lb.; hematine, paste, 11¢@12¢lb.; crystals, 14¢@20¢lb.; logwood, 10½¢lb. and lower grades, 7¢@9¢lb.; myrobalans, 4¢@5¢lb.; oak, 4¢@5¢lb.; osage orange, 7¢@8¢lb.; quebracho, 3¢@3½¢lb.; spruce, 1¢@2¢lb.; sumac, 8¢@9¢lb.; stainless, 10¢@11¢lb.

Formaldehyde—Makers are holding prices at 11¢@11½¢lb. as to quantity. Recent demand has reduced stocks and present prices appear firm.

Oils—The market as a whole is firm with an upward tendency. Linseed oil has been strong owing to advancing prices for seed. Carlots named at 94¢ and smaller quantities up to \$1.00; neatsfoot oil higher at 14¾¢ for pure and extra 11½¢lb.; oleo oil is easier at 14¾¢lb. for No. 1 and 10¼¢lb. for No. 3; degrass is steady at 4¾¢@5¢lb. for American and 50¢ gallon for Moellon.

Potassium Bichromate—Makers report an increased demand and prices firm at 9½¢@10¢lb. according to quantity.

Soda Ash—Little new in the situation. Current demand is seasonable while deliveries on contract have been steady. Prices are holding at \$1.25 per hundred for 58 per cent light in bulk, \$1.38 in bags, and \$1.63 in barrels, carlots on contract at works. Spot business in less than carlots at \$2.04@\$.2.19 in bags and \$2.29@\$.2.44 in barrels, delivered.

Soda, Caustic—Current business is normal and deliveries are proceeding regularly on contracts. Makers' prices are steady with solid, 76 per cent, at \$3.10 at works on contract; ground and flake, \$3.50. Spot business in less than carlot quantities named at \$3.76@\$.3.91 for solid in drums, and \$4.16@\$.4.31 for ground and flake in drums, delivered.

Sodium Bichromate—With buying improving makers have become firmer in their prices and are quoting 7½¢@7¾¢lb. according to seller and quantity.

Sodium Hyposulfite—Imported pea crystals higher at

\$3.00. Domestic regular crystals at \$2.75@3.00 and pea crystals at \$3.00@3.25.

Sodium Sulfide—Domestic material has been moving in better volume while imported material is being consumed in smaller quantities. Prices vary according to seller with solid quoted from 3½¢@4¢lb. and broken, 4¢@5¢lb. Crystals, 2¾¢@2¾¢lb.

LEATHER TRADE GOOD IN MICHIGAN

(Special to DRUG & CHEMICAL MARKETS)

Detroit, Mich., Feb. 27—Business of tanning and leather companies located near the automobile markets is increasing. Plants were temporarily handicapped by a shortage of tan bark, but many plants are using the chrome process. Michigan has 25 large tanneries, representing a total investment of \$18,000,000, which with numerous smaller ones have an annual output, in normal times, valued at \$24,000,000. A single concern in the southern part of the state handles from 750,000 to 1,000,000 skins annually. The largest sole leather plant in the country is at Boyne City, Michigan. It is one of five plants operated by the Michigan Tanning & Extract Co.

With growth of the automobile industry, Grand Haven has become the site of a large automobile upholstery leather plant. It is one of the two plants of the Eagle-Ottawa Leather Co., whose capitalization has grown from \$600,000 in 1910 to \$4,000,000, and has an annual output valued at \$6,000,000 to \$8,000,000.

The total value of exports of leather from the United States during the calendar year 1923 amounted to \$42,833,952.

Paper Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aluminum Sulfate	\$2.40	\$2.40	\$2.40	\$2.40	\$5.50	\$1.50
Bleaching Powder	1.75	1.75	1.50	2.00	9.50	1.50
Casein .....	.11	.11½	.12½	.25	.28	.20
China Clay, Dom.....	10.00	10.00	10.00	15.00	25.00	8.00
Chlorine Cyl. ....	.05	.05	.04½	.06½	.30	.08
Salt Cake	20.60	21.00	21.00	25.00	80.00	11.00
Sodium Silicate, 40°.....	.80	.80	.80	.95	1.75	2.00
Soda Ash	1.38	1.38	1.38	1.45	4.10	.69
Sulfur	18.00	18.00	18.00	18.00	65.00	20.00
Rosin F grade	5.85	5.75	5.90	5.75	4.50	20.25
Average	6.015	6.126	6.115	7.195	13.30	5.50

Consumption of paper chemicals has been increasing but the volume is still somewhat below expectations in the trade. Importations of chemical pulp and paper has had its effect upon the domestic production of these products and consequently the consumption of paper chemicals. The recent advance in bleaching powder and chlorine is an indication of better conditions in the industry and denotes that stocks of bleach have been reduced and competition between producers is less aggressive. Expanding uses for chlorine have taken up much surplus production and the future will undoubtedly see increased consumption and higher prices. Casein has weakened again and is back to 11¢lb. for the imported material. Sulfate of alumina is steady. Salt cake is less firm and concessions are being made in some directions. Lower grades of rosin are strong at present.

Aluminum Sulfate—Supplies are moving out regularly with little change in the price situation. Commercial

Dovan

DIPHENYL-GUANIDINE

Uniform Cure

Another advantage of Dovan Diphenyl-Guanidine is its extreme fineness of subdivision. This results in easy and complete dispersion in the mix—thereby insuring a uniform cure throughout the article.

For those who prefer magnesated Diphenyl-Guanidine, X L O accelerator is recommended.

Dovan Chemical Corporation

Thirty Church Street

New York

Represented by

J. A. KENDALL, Akron, Ohio J. E. O'NEILL, Boston, Mass.

T. E. O'REILLY, LTD., Toronto

MARTIN, HOYT & MILNE, San Francisco and Los Angeles

BUCKLETON & NOURRY, LTD., 13 Rumbold St., Liverpool, England

WISHNICK-TUMPEER CHEMICAL CO.

CARBON BLACK

Stocks Carried At

Chicago
365 E. Illinois St.

New York
130 44th St.
Brooklyn

Cleveland
Davenport and
E. 14th St.

is mentioned at \$1.30 in some quarters but general quotations are \$1.35@1.40. Iron-free is named at \$2.25 @ \$2.40 according to seller and quantity.

Blanc Fixe—Little change in the situation with producers making deliveries regularly on contract and prices stable at \$75.00@\$80.00 ton for dry domestic and \$50.00@\$55.00 ton for pulp. Imported dry at \$70.00 @ \$72.00 ton.

Bleaching Powder—Holding at the recent advance with demand from mills showing a steady improvement. Prices are now quoted at \$1.75 per hundred spot or contract in standard drums in carlots at works and \$2.00 in small drums. Less than carlot quantities are 15c per 100lbs. above these prices. Spot prices in Metropolitan district for small lots named at \$2.25@\$2.50.

Casein—Imports have been increasing and sellers have been cutting prices in order to keep the stocks from accumulating. Quotations are named at 8clb. c.i.f. or 11clb. duty paid. Domestic is at like quotations and up to 13clb. as to grade and quantity. Imports at New York last week included 3,335 bags casein.

Chlorine—Makers are firm at the recent advance in prices. Increased consumption in paper mills and other consuming quarters has helped to strengthen this item. Prices are named at 4clb. in tank cars on contract at works, 5clb. in carlots of cylinders, 5½clb. for more than ton lots and 6½clb. in ton lots or less. Through an error in last week's announcement, the price for ton lots or less was quoted at 6clb. instead of 6½clb.

China Clay—Little doing aside from the regular deliveries on previously placed contracts. Prices are steady at \$6.00@\$8.00 for the crude; \$7.50 for the washed and ground; \$13.00@\$16.00 ton for filler clay; and \$25.00 up for coating clay.

Salt Cake—Offerings seem more plentiful and prices are being shaded in some directions. General quotations for paper industry are \$19.00@\$20.00 ton.

Satin White—Holding at \$1.45@\$1.50 in makers' hands on routine demand.

Sodium Silicate—Contract deliveries have been holding up steadily while prices have shown no change. Forty degree named at 75c per hundred in tanks and 80c@85c in drums; sixty degree at \$1.75@\$2.00 in drums.

Rosins—Buying has been improving and prices are firmer especially in the lower grades which are in smaller volume at this time of the year. Further advances are expected if Southern markets continue to hold. Quotations B to I, \$5.85; K, \$6.00; M, \$6.10; N, \$6.50; WG, \$7.65; WW, \$7.75.

Sulfur—Steady with quotations at mines at \$14.00@ \$15.00 ton and at New York, \$18.00@\$19.00 ton.

Soda Ash—Little new in the situation. Current de-

mand is seasonable while deliveries on contract have been steady. Prices are holding at \$1.25 per hundred for 58 per cent light in bulk, \$1.38 in bags, and \$1.63 in barrels, carlots on contract at works. Spot business in less than carlots at \$2.04@\$2.19 in bags and \$2.29 @ \$2.44 in barrels, delivered.

Talc—Contract business is being quoted at \$13.50@ \$15.00 ton as to grade while current business in carlots is named at \$14.00@\$18.00 ton as to quality at the mines.

Exports of paper and paper products from the United States during 1923 were valued at \$25,677,685, which is more than one million and a half dollars in excess of those for 1922, according to preliminary figures compiled by the Department of Commerce. This increase was due to an increase in average prices and not in quantity of exports. Newsprint shipments decreased from 51,528,348 pounds in 1922 to 32,714,732 pounds in 1923, and values from \$2,337,591 to \$1,636,937. The value of book paper exports however, increased approximately \$200,000.

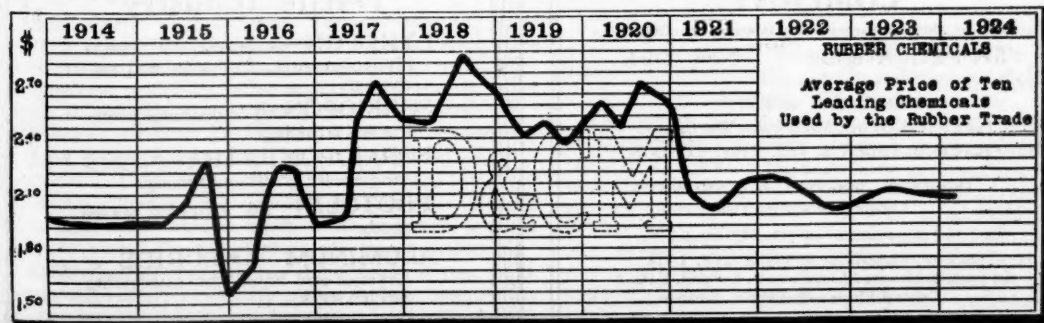
Pennsylvania's Department of Forests and Waters reports that seventy per cent of the pulpwood used in the twelve paper mills in the state in 1923 was imported from Canada. The report estimates that 500,000 acres of forest land would be necessary to supply the demand of the mills in the state.

Rubber Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Antimony Sulfide Crim....	\$.30	\$.39	\$.39	\$.35	\$.45	\$.35
Carbon Bisulfide .....	.06	.06	.06	.06	.50	.10
Carbon Black .....	.11	.11	.11	.15	.30	.14
China Clay, Imp.	16.00	16.00	16.00	16.00	20.00	14.00
Hexamethylene .....	.83½	.83½	.83½	.87	1.85	..
Iron Oxide, Span .....	.08½	.08½	.08½	.04	.04½	.08
Lithopone .....	.06½	.06½	.06½	.06	.08	.04
Sulfur	3.05	3.05	3.05	2.50	6.50	2.75
Whiting, Dom.	14.00	14.00	14.00	18.00	30.00	11.00
Zinc Oxide, Amer. ....	.07¼	.07¼	.07¼	.07	.09¼	.09
Average	3.462	3.462	3.462	3.820	5.931	..

Rubber compounding materials are being absorbed in greater volume by the mechanical rubber industries than by the tire, shoe, and boot factories. For the past two months reports have been heard that the tire people are going to begin operations in a large way, but from the latest information, a number of them are still working on a small scale. The only change during the past week has been the advance in litharge, which is named at \$11.25 cwt. Hexamethylene is in active demand with production about equal to consumption. Whiting



and white barytes show increase in demand and some directions report these, the leaders for the week. Carbon black is active with most of the buying in less than car lots.

Acetone—Regular demand being met with prices now holding at \$1.05@1.10 gal. for methyl acetone and 19c @19½c lb. for the C.P. Acetone oils named at \$1.25 @1.30 gal.

Acid, Acetic—The situation remains about the same with demand from some sections active and others quiet. The raw material market is not as stable as it has been but present prices are being maintained. Makers quote acids at \$3.38@3.63 for 28 per cent; 56 per cent, \$6.75 @7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

Aniline Oil—Supplies ample for all requirements at 16c@17c lb. works, and 17c@18c lb. for spot goods.

Aluminum Flake—Demand quiet at \$23@27 ton works.

Antimony Sulfide—Little inquiry received at the moment. Prices unchanged at 19c@24c lb. spot for golden, and 39c@50c lb. for crimson.

Asbestine—Quiet at \$18@20 ton works as to quantity and quality.

Benzene—Although prices are unchanged, the market is firm and higher values are likely, according to advances in the trade. Ninety per cent quoted at 23c@25c gal. works in tanks, and 28c@30c gal. in drums. Pure at 24c@26c gal. in tanks, and 29c@33c gal. in drums.

Blanc Fixe—Quoted unchanged at 4c@4½c lb. f.o.b. New York.

Carbon Bisulfide—Little business doing at 6c@6½c lb. spot.

Carbon Black—Quoted at 11c@13c lb. spot for ordinary in 1c/1 in cases, 13c@15c lb. for air floated, and 11c @13c lb. for compressed material. Low prices and higher exchange rates have been in favor of a better export inquiry.

China Clay—Imported named at \$18@20 ton spot, and domestic at \$13@20 ton works as to quantity and quality.

Diphenylguanidine—Makers name \$1.05@1.15 lb. spot as to quantity. Demand fair with competition keen for available business.

Hexamethylene—In active demand at 82½c@85c lb. spot. Raw material firm.

Iron Oxide—Quoted at 3½c@7½c lb. spot for Spanish, and 12c@16c lb. for English.

Litharge—Has advanced and now quoted at \$11.25 cwt. spot owing to firmness of the raw material.

Lithopone—Quiet and routine at 6½c@7½c lb. spot. During past week 200 casks were imported at New York.

Magnesium Carbonate—In active demand at 8¼c@8¾c lb. spot. Heavy calcined magnesium named at 5½c@6c lb. spot.

Mineral Rubber—Little business reported last week at \$35@50 ton for 300/315 quality.

Quinoidine—First hands unchanged at 55c lb. in drums.

Sulfur—Named at \$3.05@3.30 cwt.; superfine at \$2.50 @2.90 cwt.; and chloride at 6c@7c lb.

Talc—Quoted at \$15@18 ton works at \$28@30 ton ex-warehouse New York for domestic; French at \$40 @45 ton; and Italian at \$47@58 ton.

AERO BRAND

Yellow Prussiate of Soda

Yellow Prussiate of Potash

A new source of supply based upon primary raw materials entirely of our own manufacture. Production and deliveries therefore are regular and dependable.

AERO BRAND Yellow Prussiate of Soda and Yellow Prussiate of Potash are products of exceptional purity and compare favorably with any other grade ever produced.

AMERICAN CYANAMID COMPANY

Largest Manufacturers of Prussiates in the World
511 Fifth Avenue New York

EXCLUSIVE AGENTS

For Consumers in United States and Canada
VICTOR BLAGDEN & CO., LTD., LONDON
and

HENRY W. PEABODY & COMPANY
17 State Street, New York

For Shipment to all Other Countries
VICTOR BLAGDEN & COMPANY, LTD.
Coronation House, 4 Lloyd's Ave., London, E. C. 3
Cable Address—Blagdenite, London

Rohm & Haas Co., Inc.

40 N. Front St.
PHILADELPHIA, PA.



Hydrosulphites and Sulphoxylates

for the
Textile Industry

LYKOPON—A concentrated SODIUM HYDROSULPHITE, for indigo and vat dyeing.

FORMOPON—For discharge printing and stripping.

FORMOPON EXTRA—For stripping woolen goods and shoddy.

PROTOLIN—For stripping woolen goods.

ALUMINUM CHLORIDE—Crystals and liquid, for carbonizing woolen stock.

Thiocarbanilide—In little demand at 28c@30clb. spot.
White Barytes—Quoted at \$24@26 ton f.o.b. St. Louis, and imported at \$16@18 ton. Demand active with some fair sized quantities passing into consumption last week.

Whiting—Imported at \$16@18 ton, and domestic at \$13@15 ton.

Zinc Oxide—Quiet and unchanged at 7¼c@8¼clb. spot.

Jon. M. Ball, of R. T. Vanderbilt Co., New York, compounding materials for chemical industries, has returned from a trip through the Middle West. He reports that while rubber manufacturers are taking on some fair sized quantities, business is not as brisk as last year, and that the small maker is feeling the keen competition with the larger manufacturers.

E. L. Bullock, Sr., of E. L. Bullock & Sons, New York, rubber chemicals, has returned to his desk after two weeks illness.

Textile Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acid, Acetic, 28%	\$3.38	\$3.38	\$3.38	\$3.17	\$17.00	\$1.50
Acid Oxalic .....	.11	.11	.11½	.12	.70	.07½
Bleaching Powder	1.75	1.75	1.50	2.00	9.50	1.50
Copper Sulfate	4.75	4.65	4.65	6.00	20.00	4.50
Epsom Salt, U.S.P.	2.10	2.10	2.10	2.25	4.25	1.50
Glauber's Salt	1.30	1.30	1.30	1.25	2.50	.80
Potash, Caustic, Imp. ....	.06½	.06½	.06½	.07	.87	.12
Soda Ash, 58% wks.	1.38	1.38	1.38	1.45	4.10	.69
Soda Caustic, 76% wks.	3.10	3.10	3.10	3.16½	9.50	1.80
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04½
Average	1.803	1.793	1.766	1.864	4.800	1.42

While activity in textile chemicals has not shown any startling change from previous weeks, prices appear to be holding firm and steady, due to the general practice of keeping stocks at minimum both in sellers' as well as consumers' hands. Sellers of chemicals have been interested this week speculating upon the future of chemicals by the activity of the textile buyers who are in New York for their textile purchases. Indications are that buyers are watching and buying closely for Fall lines. In the chemical list, copper sulfate has advanced following the recent strength in the metal. Tin salts are also strong since tin has been advancing steadily. Sodium acetate is in smaller supply and prices are firm. Sodium chlorate is stronger. Caustic potash is higher for shipment from abroad. Arsenic is weak in the face of small demand. Potassium permanganate is at low levels. Sodium hyposulfite is stronger. Acid and alkalis are steady. Bleach and chlorine are firm at the latest advance.

Acid, Acetic—The situation remains about the same with demand from some sections active and others quiet. The raw material market is not as stable as it has been but present prices are being maintained. Makers quote acids at \$3.38@3.63 for 28 per cent; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

Acid, Formic—Importers are quoting the 90 per cent material at 13clb. while the 85 per cent grade is offered at 13clb. Supplies are limited and have been difficult to obtain from abroad while domestic costs are too high to permit its manufacture at present prices.

Acid, Oxalic—Demand has been fairly active while prices are subject to shading owing to keen competition in the market. Domestic is quoted at 11clb. though

lower prices at 10½clb. have been heard. Small lots are quoted up to 12clb. Imported named at 11c@11¼clb.

Bleaching Powder—Holding at the recent advance with demand from mills showing a steady improvement. Prices are now quoted at \$1.75 per hundred spot or contract in standard drums in carlots at works and \$2.00 in small drums. Less than carlot quantities are 15c per 100lbs. above these prices. Spot prices in Metropolitan district for small lots named at \$2.25@2.50.

Chlorine—Makers are firm at the recent advance in prices. Increased consumption in paper mills and other consuming quarters has helped to strengthen this item. Prices are named at 4clb. in tank cars on contract at works, 5clb. in carlots of cylinders, 5½clb. for more than ton lots and 6½clb. in ton lots or less. Through an error in last week's announcement, the price for ton lots or less was quoted at 6clb. instead of 6½clb.

Epsom Salt—Domestic makers continue to quote the technical at \$1.80@2.00 while imported is stronger and higher at \$1.25@1.30. U.S.P. material quoted at \$2.10@2.50 for domestic and \$1.75@2.25 for imported.

Glauber's Salt—In better demand with prices firm at \$1.30 in carlots and up to \$1.75 as to quantity. Imported is offered at 90c@\$1.00 for technical.

Potash, Caustic—Shipment prices have strengthened and have advanced to 6½clb. A few offerings were heard at 6¾c@6½clb. spot but these are not expected to remain very long as some are now quoting 7clb.

Soda Ash—Little new in the situation. Current demand is seasonable while deliveries on contract have been steady. Prices are holding at \$1.25 per hundred for 58 per cent light in bulk, \$1.38 in bags, and \$1.63 in barrels, carlots on contract at works. Spot business in less than carlots at \$2.04@2.19 in bags and \$2.29@2.44 in barrels, delivered.

Soda, Caustic—Current business is normal and deliveries are proceeding regularly on contracts. Makers' prices are steady with solid, 76 per cent, at \$3.10 at works on contract; ground and flake, \$3.50. Spot business in less than carlot quantities named at \$3.76@3.91 for solid in drums, and \$4.16@4.31 for ground and flake in drums, delivered.

Sodium Acetate—Firm at 5c@5½clb. on limited supplies.

Sodium Bichromate—With buying improving makers have become firmer in their prices and are quoting 7½c@7¾clb. according to seller and quantity.

Sodium Prussiate—Imported holding at 11½c@12clb. while domestic is named at 12clb. at works.

Sodium Sulfide—Domestic material has been moving in better volume while imported material is being consumed in smaller quantities. Prices vary according to seller with solid quoted from 3½c@4clb. and broken, 4c@5clb. Crystals, 2¼c@2¾clb.

Tin Salts—Crystals are strong and an advance is expected next month following the advance in metal. Named at 35½c@36clb. Oxide is higher at 55c@57clb.

Starches and Dextrines

The month has shown an improvement in volume of business over January although the past week was reported slow owing to the holiday interruptions. Prices have been holding steady since the last advance and present quotations are on the basis of \$3.94@4.19 for British gum. White corn dextrine at \$3.59@3.69; yellow, \$3.64@3.74; potato, 7½c@8clb. Powdered corn starch, \$3.17@3.27 in bags; pearl, \$3.07@3.17; potato, 5c@6clb.; tapioca, 4c@7clb. as to grade. Albumen continues scarce and high at \$1.25lb.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

Style and Arrangement Copyright by DRUG & CHEMICAL MARKETS, 1922

Chemicals

ANILINOL , tech. 150 lb. bbls. D	.27	.38
100 lb. kgs. D	.25	.30
USP 300 lb. bbls. D	.22	.33
Second Hands D	.30	.31
Acetic Anhydride , 85% 450 lb. drs. D	.28	.28
85%, 107 lb. cys. D	.28	.28
92-95% 100 lb. cys. D	.48	.45
Acetone , CP 700 lb. drs. c/l vls. D	.19	.19
700 lb. drs. l/l vls. D	.19	.19
350 lb. drs. l/l vls. D	.20	.20
Second Hands, spot. D	.19	.19
Acetone Oil , light, drs. vls. gal	1.35	1.40
Heavy, drs. vls. gal	1.35	1.30
Acetophenetidin , 150 lb. bbls. D	1.35	1.90
Acetyl Chloride , 100 lb. cys. D	.40	.41
ACID , 1, 2, 4, 250 lb. bbls. D	.130	.130
Acetic, 25%, 400 lb. c/l vls. D	.33	.33
25%, l/l vls. D	.33	.33
50%, c/l vls. D	.67	.67
50%, l/l vls. D	.70	.70
70%, bbls. c/l vls. D	.83	.83
70%, l/l vls. D	.83	.83
80% conc. bbls. c/l vls. D	.83	.83
80% pure bbls. c/l vls. D	.11.41	.11.41
80%, pure l/l vls. D	.11.60	.11.60
Glacial, bbls. c/l vls. D	.12.78	.12.78
Glacial, l/l vls. D	.12.03	.12.03
Glacial USP cys. vls. D	.13.53	.13.53
Acetylacetone , 350 lb. bbls. D	.75	.75
Second Hands D	.70	.72
Ammonia , tech. drs. D	.94	.94
99-100%, 100 lb. drs. D	1.00	1.00
Ammonia , tech. 100 lb. bbls. D	.75	.75
Tech. two lots bbls. D	.75	.75
USP, 100 lb. bbls. D	.75	.75
Second Hands D	.72	.77
Boric , crys. prod. 350 lb. bbls. D	.13	.13
Kap. 100 lb. D	.13	.13
Bromine , 250 lb. bbls. D	.1.15	.1.15
USP, 60% pure 5 lb. bot. D	.50	.50
C.P. 10 lb. bot. D	1.35	1.50
Camphor , USP, VIII 1 lb. bot. D	5.00	6.00
Carbolic , USP crys. see also Phenol		
112 lb. tins D	.31	.34
25 lb. tins D	.35	.35
5 lb. tins or bot. D	.35	.35
1 lb. bot. D	.40	.45
Liquid USP, 1 lb. bot. D	.39	.42

Acid, Carbolic —(continued)		
Crude, 25% 50 gal. bbls. gal	.25	.26
10%, 50 gal. bbls. gal	.30	.32
Chloracetic , mono 100 lb. bbls. vls. D	.30	.30
DI, 150 lb. cys. vls. D	.1.00	.1.00
Tri, 425 lb. bbls. vls. D	.2.45	.2.45
Chloroformic , 1500 lb. drs. vls. D	.15	.16
Chromic , USP 200 lb. drums. D	.40	.40
85% Pure, 200 lb. drums. D	.35	.35
Chromotropic , 300 lb. bbls. D	1.35	1.35
Chrysanthemic , see Chrysanthemum		
Cinnamic , 5 lb. cans D	.3.93	.3.93
CITRIC , USP crys. 250 lb. bbls. D	.48	.48
Food, USP 200 lb. bbls. D	.49	.49
Imported, crys. 112 lb. kgs. D	.48	.49
Single keg D	.48	.49
Clene , 250 lb. bbls. D	1.00	1.10
Cresylic, 95% dark dr. NY. gal	.65	.70
97-99% straw, drs. vls. gal	.70	.75
97-99% pale, drs. NY. gal	.70	.75
Crude, spot, drums. gal	.60	.65
Diethylbarbituric , 10 lb. lots, 1 lb. bot. D	3.50	10.50
Formic , 85% tech. 140 lb. cys. D	.13	.13
90%, 80 lb. cys. incl. D	.13	.14
Gallie , USP, 150 lb. bbls. D	.65	.65
Gamma , 250 lb. bbls. vls. D	1.60	1.60
Bbls., two lots vls. D	1.50	1.50
Glycerophosphoric , 25% 1 lb. b. D	1.85	1.95
H 250 lb. bbls. D	.75	.80
Bbls., two lots vls. D	.75	.75
Hydrolic , 10% USP 5 lb. bot. D	.75	.75
Hydrochloric , 45% conc. 155 lb. cys. vls. D	.35	.40
45% conc. 10 cys. vls. D	.40	.40
40% USP 155 lb. cys. vls. D	.45	.45
10% USP 100 lb. cys. vls. D	.11	.13
Hydrochloric , see also Acid Mariatic		
CP, USP, 110 lb. cys. D	.00	.11
HYDROFLUORIC , 30% 400 lb. bbls. vls. D	.07	.07
30% bbls. c/l vls. D	.06	.06
30% 100 lb. cys. vls. D	.07	.07
45% single 100 lb. cys. vls. D	.11	.11
45% 10 cys. vls. D	.10	.10
52% 100 lb. cys. vls. D	.14	.14
52% 10 cys. vls. D	.11	.11

Acid, hydrochloric —(continued)		
60% 100 lb. cys. vls. D	.14	.14
60% 300 lb. drs. vls. D	.18	.18
White Acid, 100 lb. cys. vls. D	.20	.20
White Acid, 10 cys. vls. D	.35	.35
Hydrofluoric , 35% 450 lb. bbls. vls. D	.13	.13
Hypophosphorous , USP 30% 5 gal. demis. D	.85	.85
USP, 10% 5 gal. demis. D	.30	.30
LACTIC , 22% dark 500 lb. bbls. D	.04	.05
22% light, bbls. D	.05	.05
44% dark, bbls. D	.09	.10
44% light, bbls. D	.11	.12
60% bbls. dark, bbls. D	.15	.15
60% light, bbls. D	.25	.25
USP IX 100 lb. cys. D	.70	.75
USP VIII 100 lb. cys. D	.50	.50
Laurent's , 250 lb. bbls. D	.90	.90
Metanilic , 250 lb. bbls. D	.60	.65
Mixed , sulfuric-nitric		
Drums, vls. D	.07	.08
Drums, vls. D	.01	.01
Tank cars, vls. D	.06	.07
Tank cars, vls. D	.0009	.01
Molybdic , 85% pure 1 lb. bot. D	1.77	1.87
85% pure, 100 lb. kgs. D	.18	.18
Monoammonic F. Dain , 50 lb. tins D	.235	.235
MURIATIC , 20% cys. l/l vls. D	1.45	1.50
USP, c/l vls. D	1.30	1.40
Tank cars, vls. D	1.00	1.10
18% , 120 lb. cys. c/l vls. D	1.00	1.10
Tank cars, vls. D	.00	.00
22% , 120 lb. cys. c/l vls. D	1.75	2.00
Iron , free 20% cys. c/l vls. D	.00	.00
Tank cars, vls. D	.00	.00
Muriatic , CP & USP, see Acid Hydrochloric		
Naphthalene , tech. 250 lb. bbls. D	.63	.63
Refined, single bbls. D	.65	.65
Novile & Wither's , 250 lb. bbls. D	1.05	1.10

U. S. P.
For the Drug Trade
Medicinally

C. P.
For the Chemist
in analyzing
Technical
By Manufacturers
and in the Arts

Anhydrous
In Refrigeration

AMMONIA WATER U. S. P.
in bottles and carboys

AMMONIA C. P.
in bottles and carboys

AMMONIA 26° TECH.
in bottles and carboys

AMMONIA ANHYDROUS
in 10 lb. and 100 lb. carboys

Estab-
lished
1857

CHAS. COOPER & CO. Works:
194 Worth Street, New York Newark
N. J.



French Zinc Oxide

A particularly fine grade especially suitable for the requirements of perfumers.

We will be happy to submit a sample and quotation.

We are also in a position to furnish an excellent light and fluffy grade of **Zinc Stearate**

E. FOUGERA & Co.
INCORPORATED

90-92 Beekman Street, N. Y.

FOUGERA



CARUS
CHEMICAL CO.
Manganese
Sulphate
LA SALLE
ILL.

P-W-R

Bismuth Preparations Bromides

Codeine and Salts Creosote

Creosote Carbonate Diacetylmorphine

Ether Iodides Calomel and other Mercurials

Acid Citric and Citrates Chloroform

Morphine Sulphate and other Morphine Salts

Opium Hypophosphites Phenolsulphonates

Quinine Sulphate and other Quinine Salts

Salicylates Silver Salts Strychnine

WRITE FOR CATALOG OF OUR ENTIRE LINE

POWERS-WEIGHTMAN-ROSENGARTEN CO.

MANUFACTURING CHEMISTS

New York PHILADELPHIA St. Louis

Hydrocarbon Products Co.
Inc.

Xylols
of all types

39 Cortlandt St. New York

Chemicals

ACID, NITRIC, 86° 188B

le/l chys. wks. ....100B	4.75	5.00
Chys. c/l wks. ....100B	4.50	4.75
35° le/l chys. wks. ....100B	5.25	5.75
Chys. c/l wks. ....100B	5.00	5.25
40° le/l chys. wks. ....100B	5.75	6.00
Chys. c/l wks. ....100B	5.50	5.75
42° le/l chys. wks. ....100B	6.25	6.75
Chys. c/l wks. ....100B	6.00	6.25
C. P. chys. single wks. ....100B	.14	.14
Oralic, 325B bbls. wks. ....D	.11	.11 1/4
Bble., NY .....D	.11	.12
Imp., 560B cans. ....D	.11	.11 1/4
Keps, 100B NY .....D	.12 1/4	.13
Phosphoric, 50% tech. 100B chys. ....D	.07 1/4	.08
USP, Syrupy 85°, 70B. demis. ....D	.12	.13
Imported .....D	.13	.13
Phthalic, see Phthalic Anhydride		
Picramic, 300B bbls. ....D	.35	.35
Picric, 450B bbls. ....D	.30	.30
Bble., car lots wks. ....D	.30	.35
Pyrogallic, crys. 5B cans. ....D	1.30	1.40
Resublimed, 5B cans. ....D	1.50	1.60
Tech. powd., 200B bbls. ....D	.85	.85
Salicylic, tech. 125B bbls. ....D	.33	.34
USP, 100B bbls. ....D	.35	.35
Second Hands .....D	.35	.35
Sulfanilic, 250B bbls. ....D	.17	.30
SULFURIC, 66° 180B chys. le/l wks. ....100B	1.35	1.75
Chys. le/l wks. ....100B	1.35	1.40
1500B Drums, le/l wks. ....100B	.125	.125
Drums, c/l wks. ....100B	.110	.110
Tank cars, wks. ....net ton	14.50	15.50
60° 1500B Drums, le/l wks. ....100B	.70	.80
Drums, c/l wks. ....100B	.80	.80
Tank cars, wks. ....net ton	9.00	10.00
C. P. 175B chys. ....100B	.08	.08

Acid Sulfuric

Oleum, 20 p.p. 1500B drums, le/l wks. ....100B	1.50	1.75
Drums, c/l wks. ....100B	1.25	1.50
Tank cars, wks. ....net ton	17.00	18.00
Contract cars, wks. ....ton	. . .	. . .
Oleum, 40% drs le/l wks. net ton	. . .	40.00
Oleum, 90% drs., le/l wks. net ton	. . .	70.00
Sulfurous, USP 6% 100B chys. B	.05	.06
4% 100B chys. ....B	.04	.05
USP, 5 gal. demis. ....B	.06	.08
Tannic, tech. 300B bbls. ....D	.40	.40
USP, powd. 300B bbls. ....D	.30	.33
USP, fluffy, 50B bbls. ....D	.30	.33
Tartaric USP crys. 300B bbls. B	.30	.30
USP, powd. 300B bbls. B	.30	.30
Imp. USP, 240B bbls. ....D	.27 1/4	.28
Powd. 240B bbls. ....D	.27 1/4	.28
Tobias, 250B bbls. ....D	.95	1.05
Tungstic, 100B kgs. ....D	. . .	1.00
Valeric, C.F., 10B bot. ....D	4.00	4.25
Acronitine Alk. crys. 1 oz. vis. oz	. . .	20.00
Amorphous, 1 oz. vis. ....oz	. . .	20.00
Adeps Lanac, hydrous 350B bbls. B	.21	.23
Anhydrous, 350B bbls. ....B	.23	.24
Albumen, Egg. edible. ....D	. . .	1.25
Technical, see Dyes Sundries		
ALCOHOL, USP 190 pf. 50 gal. bbls. ....gal	4.83	4.91
Second Hands, bbls, USP 190 pf. ....gal	. . .	. . .
Export, USP, 190 pf. ....gal	.45	.53
Cologne Spirit, 50 gal. bbls. gal	4.90	5.00
Wood, see Methanol		
Alcohols, also in 50 gal drums, extra and returnable.		
Amyl, see Oil Fuel		
Butyl, 50 gal. drums. ....B	.45	.50
Isobutyl, crude 50 gal. drums. gal	. . .	. . .
Refined, 10B can. ....B	2.00	2.50

ALCOHOL—(continued)

Isopropyl, crude 50 gal. drs. gal	. . .	2.25
Refined, 50 gal. drs. ....gal	4.00	4.50
Ref'd, 91% drs. ....gal	. . .	3.50
Methyl, see Alcohol, Wood		
Propyl, nml. crd. 50 gal. drms. gal	. . .	4.10
Refined, 10B cans. ....B	. . .	.75
Denatured		
No. 1 Complete Denat. 183 Proof		
50 gal. bbls. incl. ....gal	.56	.58
50 gal. drums, extra. ....gal	.51	.53
No. 1 Special Denat. 190 Proof		
50 gal. bbl. incl. ....gal	.54	.56
50 gal. drums, extra. ....gal	.48	.50
No. 5 Complete Denat. 183 Proof		
50 gal. bbls. incl. ....gal	.53	.55
50 gal. drums, extra. ....gal	.47	.49
No. 6 Complete Denat. 183 Proof		
50 gal. bbls. incl. ....gal	.53	.55
50 gal. drums, extra. ....gal	.46	.48
In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue.		
Aloia, USP 100B cases. ....B	.83	.93
Alpha-Naphthol, crude 300B bbls. B	. . .	.65
Refined, 300B bbls. ....B	. . .	.75
Alpha-Naphthylamine, 350B bbls. B	.35	.37
Two lots, bbls, wks. ....B	. . .	.35

General Chemicals

A MARK OF PLEDGED RESPONSIBILITY



ON PRODUCTS OF STANDARD MERIT

Sodium Sulphide

Sulphuric Acid	Nitric Acid	Hydrofluoric Acid
Acetic Acid	Ammonia Alum	Salt Cake
Epsom Salt	Aluminum Sulphate	Tin Crystals
Hydrochloric Acid	Copperas Nitrate Iron	Sodium Silicate
Mixed Acids	Anhydrous Bisulphite Soda	Sodium Phosphate

GENERAL CHEMICAL COMPANY

40 Rector Street, New York

Baltimore
BuffaloChicago
ClevelandDenver
EastonPhiladelphia
PittsburghProvidence
San FranciscoThe Nichols Chemical Co., Ltd., Montreal
Cable Address: Lycourgas, N. Y.


MECCOALPROCENOCOMECCOALPROCENOCO

ACETATES

AMYL BUTYL ETHYL

The Miner Edgar Company
Rail and Water Facilities
110 William Street
New York

MECCOALPROCENOCOMECCOALPROCENOCO



Acetaldehyde
Acetalcohol
Acetylene Tetrachloride
Diethyl Sulphate
Ethylene Chlorhydrin
Ethylene Dichloride
Ethylene Glycol
Ethylene Oxide
Glycol Diacetate
Hexachlorethane
Isopropyl Chloride
Isopropanol
(Isopropyl Alcohol)
Paraldehyde
Propylene Chlorhydrin
Propylene Dichloride
Propylene Glycol
Propylene Oxide
Pentachlorethane
Perchloroethylene
Trichlorethylene

These chemicals were developed and are made by us. Consult our Research Department about them.

DIETHYL SULPHATE

The Most Satisfactory General
Ethylating Agent

No Autoclaves Necessary

Non VolatileNon Toxic

Non Inflammable

Non Corrosive

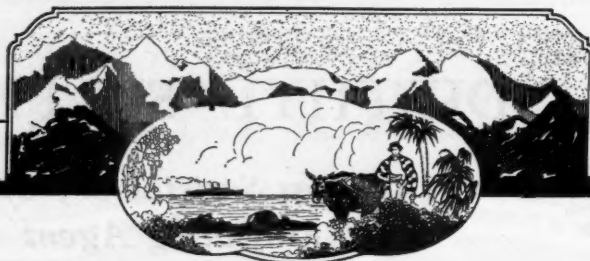
Technical and C. P. Grades

CARBIDE AND CARBON CHEMICALS CORPORATION

CARBIDE AND CARBON BUILDING, 30 EAST FORTY-SECOND STREET, NEW YORK
Telephone Vanderbilt 8700

Chemicals

ALUM, Ammonia, lump 400 lb bbls.			AMMONIA anhyd. 100 lb cyl.... lb			AMMONIUM—(Continued)		
Wks.	100 lb	3.50 : 3.55	Water, 26° 800 lb drs. wks. lb	...	.06%	Persulfate, 112 lb cases..... lb	...	.50
Imp., 500 lb cases.....	100 lb	...	Dr. c/l wks..... lb	...	.06%	Phosphate, dibasic 200 lb bbls. lb	...	.38
Ground, 400 lb bbls. wks. 100 lb		3.55 : 3.75	C.F., chys. lb	...	.14	Tech., powd. 325 lb bbls. lb	...	.18
Powd., 380 lb bbls. wks. 100 lb		3.90 : 4.00	Imp., 800 lb drs. incl. spot. lb	...	.06%	Salicylate, USP 100 lb kegs. lb	...	.80
Chrome 500 lb cks. wks. 100 lb		5.50 : 6.00	26° 100 lb chys. lc/l wks. lb	...	.07%	Sulfate, bulk c/l wks. 100 lb	...	3.00
Potash, lump 400 lb bbls.			Chys., c/l wks. lb	...	.07%	200 lb single bgs. c/l wks. 100 lb	...	3.15
Wks.	100 lb	4.50	20° 800 lb drs. lc/l wks. lb	...	.05%	200 lb double bgs. f.a.s. 100 lb	...	3.85 : 3.90
Bbls. c/l wks. 100 lb		4.35	Chys., lc/l wks. lb	...	.06%	Sulfocyanide, tech. 100 lb kgs. lb	...	.50
Cont. bbls. c/l wks. 100 lb		4.35	18° 800 lb drs. lc/l wks. lb	...	.04%	CP, 25 lb jars. lb	...	.75 : .80
Imp. 650 lb cases a.p. 100 lb		2.90 : 3.00	Chys., lc/l wks. lb	...	.05%	Amyl Acetate, tech. 50 gal. drs. gal	...	4.65 : 4.75
Ground, 400 lb bbls. wks. 100 lb		4.35 : 4.50	16° 800 lb drs. lc/l wks. lb	...	.04%	90%, 5 gal. cans. gal	...	7.00 : 8.00
Imp. 650 lb cases..... 100 lb		3.00 : 3.25	Chys., lc/l wks. lb	...	.05%	Alcohol, see Fuel Oil		
Powd., 380 lb bbls. wks. 100 lb		4.50 : 4.75	Ammonium Acetate, 100 lb kegs. lb	...	.37	ANILINE OIL, 900 lb drs. lb	...	.16 : .17
Chrome, 700 lb cks. wks. 100 lb		5.50 : 6.00	Benzoate, USP, 1 lb bot. lb	...	1.18	Aniline Salt 200 lb bbls. lb	...	.33 : .34
Soda, grd. 400 lb bbls. wks. 100 lb		4.00	Bisulfate, 300 lb bbls. lb	...	.23 : .24	Anthracene, 80-85%, 600 lb cases	...	1.00
Bbls. c/l wks. 100 lb		3.50	100 lb kegs. lb	...	.23 : .24	Wks. lb	...	.75 : 1.00
Aluminum, metal, c/l NY. 100 lb		27.50 : 28.00	Bromide, 50 lb boxes..... lb	...	.36 : .37	80-85%, 600 lb cases wks. lb	...	1.00
Chloride, anhyd. 275 lb drs. lb		.30 : .33	Imported, 112 lb boxes..... lb	...	.20 : .21	28-30%, Imp. lb	...	.05
30% sol. 120 lb chys. lb		.03% : .04	Carb., tech. 500 lb cases..... lb	...	.10	Anthraquinone, subl. 125 lb bbls. lb	...	1.15 : 1.25
Hydrate 96% light 90 lb bbls. lb		.17% : .18%	Powd., tech. 385 lb bbls. lb	...	.09	30% paste 350 lb bbls. lb	...	...
Heavy, 62-64%, 220 lb bgs. lb		.06 : .06%	USP, lump, 100 lb kegs. lb	...	.13%	Antimony metal, slabs ton lots 100 lb	10.87	11.00
400 lb bbls. wks. lb		.06% : .07	Powd., 100 lb kegs. lb	...	.14%	Needle Powd., 100 lb cases..... lb	.08	.09%
SULFATE, Iron-free bags c/l			Chloride, Domestic			ANTIMONY CHLORIDE, anhyd 1000 lb		
Wks.	100 lb	2.25 : 2.50	Bbls., c/l wks. lb	...	.07%	Dr. lb	...	.35
Imported, spot 100 lb		2.20 : 2.50	Bbls., c/l wks. lb	...	.07%	50 lb crocks. lb	...	.45 : .48
Comm'l., 3/4% iron, bgs. c/l			Gray 250 lb bbls. wks. lb	...	.08% : .08%	Sol'n, 130 lb carboys..... lb	...	.11
Wks. East 100 lb		1.40	Bbls., c/l wks. lb	...	.08 : .08%	Oxide, 500 lb bbls. lb	...	.08% : .09
Cont. bgs. c/l wks. E. 100 lb		1.40	Imp. wh. 600 lb cases spot. lb	...	.06% : .06%	Salt, dom. 500 lb bbls. lb	...	.24 : .25
Bags, c/l wks. W. 100 lb		1.35	Gray, 600 lb cases spot. lb	...	.07% : .08	Imp., NY. lb	...	.19 : .20
Bbls., c/l wks. East. 100 lb		1.65	Lump, 500 lb cases spot. lb	...	.14 : .15	Sulfuret, golden 500 lb bbls. lb	...	.21
Bulk, c/l cont. wks. E. 100 lb		...	Icthyolate, as to brand. lb	4.25	5.00	336 lb kegs. lb	...	.19
Amidol, (see Diaminobenzol)			Iodide, USP, 25 lb jars. lb	...	5.30	Crimson, 500 lb bbls. lb	...	.38
Amidopyrine, 10 lb boxes..... lb	4.50	4.65	Lactate, 500 lb bbls. lb	...	.15 : .16	336 lb kegs. lb	...	.45
1 lb carions, 10 lb lb	...	...	Nitrate, tech. crys. 325 lb bbls. lb	...	...	Red, 500 lb bbls. lb	...	.43
Ammonazobenzene, 110 lb kegs. lb	...	1.15	Refined Crystals, bbls. lb	...	.21 : .23	336 lb kegs. lb	...	.45
			CP gran. 100 lb kegs. lb	...	.37	Tartrolactate, 500 lb bbls. lb	...	.45
			Oxalate, pure, 100 lb kegs. lb	...	.40 : .42	Antipyrine, USP, 100 lb cases..... lb	2.15	2.25
						Apomorphine Hydrochloride, 1/2 oz. vials	...	21.15
						Areoline Hydrobromide, 1 oz. vial.	6.50	8.07
						Argols, red powd. 350 lb bbls. lb	.06%	.07



CHLORIDE OF LIME

Epsom Salts
Glauber Salts
Caustic Potash
Sal Ammoniac

Peroxide of Sodium
Carbonate of Potash
Carbon Tetrachloride
Peroxide of Hydrogen

Nitrite of Soda
Sulfite of Soda
Prussiate of Soda
Bichromate of Soda

Hyposulfite of Soda

Bisulfite of Soda

EUGENE SUTER & CO., Inc.

160 BROADWAY

NEW YORK

Importers and Exporters of Industrial Chemicals

Manufacturers Agents

BASLE

HAMBURG



Cable Address: GENESUTER



DU PONT

Di-ortho-Tolylguanidine

THIS valuable rubber vulcanization accelerator is recognized to be more efficient than any other commercially useful guanidine derivative. With the du Pont accelerators listed at the left, it provides a choice for practically every rubber manufacturing need.

Each substance is so carefully manufactured and thereafter so conscientiously standardized that an unusual degree of uniformity has become characteristic of these du Pont accelerators.

We also offer:

Aniline
Formaniline
Methylenedianilide
Diphenylguanidine
Triphenylguanidine
Vulcone

E. I. DU PONT DE NEMOURS & COMPANY, Incorporated,

Dyestuffs Department, Sales Division,

WILMINGTON, DELAWARE

8 Thomas St., New York, N. Y.

The Name Associated With **"Roche"** *Fine Chemicals and Alkaloids of Rare Quality*



Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Brucine and Salts
Caffeine and Salts
Cocaine and Salts
Codeine and Salts
Colchicine Alkaloid, U. S. P.
Colchicine Salicylate
Creosote, U. S. P.
Creosote Carbonate

Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Guaiacol Liquid
Guaiacol Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastinine Hydrochloride
Hyoscine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein

Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinat
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

Chemicals

Arsonic, metal, 220 lb kegs.....D	...	.45	Benzidine Base, dry 250 lb bbls. D	...	.84	BISMUTH—(Continued)		
Red, 224 lb kegs cases.....D	.15	.13%	10 bbl. lots.....D	.80	.82	Suboxide, 5 lb lots.....D	...	4.65
White, 550 lb bbls., NY.....D	.11%	.12	Benzidine Sulfate, paste 350 lb			Subnitrate, USP, 250 lb bbls....D	...	2.90
Asbestos, see Acid Acetylsalicylic	16.00	18.00	bbls.....D	.70	.72	Second Hands, bbls. or less. D	...	2.80
Atropine, Alk. USP, 1 oz. vial....oz	5.00	5.57	Benzol, see Benzene			Cones, 1 lb bot.....D	...	4.09
Sulfate, 5 oz. cases.....oz	...	3.00	Benzonaphthol, 5 lb boxes.....D	3.50	3.60	Subsalicylate, USP, 175 bbls..D	...	3.10
Single ounce.....oz	...	3.17	Benzoyl Chloride, 500 lb drs....D	...	1.00	Tannate, 1 lb bot.....D	...	2.77
BARIUM BINOXIDE, see Barium dioxide			Benzyl Acetate, 100 lb clys....D	1.40	1.50	above on basis 25 lb lots.		
Carbonate, precip., 800 lb bbls.			Alcohol, 5 lb bot.....D	1.60	1.70	Smaller lots at an advance.		
Wks.....ton	68.00	70.00	Benzoate, 5 lb bot.....D	1.50	1.60	Blanc Fixe, dry 400 lb bbls. wks.ton	75.00	80.00
Precip., 200 lb bbls., wks.....ton	68.00	70.00	Medicinal FFC.....D	1.75	1.85	Imported, bbls.....ton	70.00	72.00
Imports, bbls., spot.....ton	63.00	65.00	Chloride, 95% tech. 925 lb dra. D	...	.35	Paste, 650 lb bbls.....ton	50.00	55.00
Chloride, 800 lb bbls., wks.....ton	80.00	82.00	100 lb clys.....D	.25	.30	BLEACHING POWDER, 700 lb drs.		
200 lb bbls., wks.....ton	...	80.00	Bedstlil, 100 lb clys.....D	.40	.45	c/l wks.....100 lb	...	1.75
Import, bbls., spot.....ton	80.00	82.50	Formate, 1 lb bot.....D	4.00	4.25	Drums 1c/l ex-warehouse...100 lb	2.25	2.40
Dioxine, 88% 690 lb drs....D	.17	.18	Berberine Hydrochloride, 1 lb bot....D	...	22.50	Contract, c/l wks.....100 lb	...	1.75
Import, 83-85% 400 lb dra.D	.13%	.15	Sulfate, acid or neut. 1 lb bot. D	...	23.00	Drums, 1c/l wks.....100 lb	1.90	2.00
Hydrate, 500 lb bbls.....D	.05	.05%	BETA-NAPHTHOL, 350 lb bbls.wks.D	...	.26	Imported, spot.....100 lb	...	...
Iodide, 5 lb bbls.....D	...	5.15	Carious, wks.....D	.24	.35	Blue Ointment, see Mercury		
Nitrate, 700 lb cases.....D	...	.10	Sublimed.....D	.55	.60	Mass, see Mercury		
Import cases.....D	...	.09	Beta-Naphthylamine, tech. 200 lb			Bone Ash, 100 lb kegs.....D	...	.08
Sulfoamide 400 lb bbls.....D	...	.35	bbls.....D	.65	.67	Black, 200 lb bbls.....D	.06	.08
Barytes, floated 350 lb bbls....ton	33.50	35.00	Sublimed, 200 lb bbls.....D	...	1.35	Borax, USP, crys. 400 lb bbls..D	...	.06
Bay Rum, Porto Rican, genuine			Bichloride Mercury, see Mercury Bichloride			Powdered, USP, 300 lb bbls....D	...	.05%
Medicated salicy, acid or tartar emetic			BISMUTH metal, 150 lb cases...D	...	2.42	Keps, USP, 100-150 lb.....D	.06	.08%
45 gal. bbls.....gal	2.00	2.20	Second Hands.....D	2.50	2.60	Bordeaux Mixture, powd. bbls...D	.12	.15
Medicated quinine sulf. 45 gal.			Ammon. Citrate, USP 5 lb bxs. D	...	5.85	Waste, bbls.....D	...	.08
bbls.....gal	2.00	2.20	Betanaphtholate, 5 lb bxs....D	...	3.44	Borneol, 1 lb bot.....D	...	3.50
Domestic synthetic, 80 gal.			Citrate, USP 5 lb bxs.....D	...	3.09	Bromide, see potass. bromide, etc.		
bbls.....gal	.90	1.00	Nitrate, 25 lb jars.....D	...	2.00	Bromine, bot. in 60 lb ca. wks..D	...	.39
St. Thomas			Oxychloride, 250 bbls.....D	...	3.50	Bromotoluene, 400 lb drums....D	.40	.42
Medicated salicy. acid or tartar			Phenolsulfonate, 5 lb cans....D	...	2.30	Bromoforn, USP 5 lb bot 50 lb cs. D	...	1.65
emetic, 50 gal. bbls.gal	1.20	1.30	Salicylate, 250 bbls.....D	...	1.95	Brucine Sulfate, 100 ozs.....oz	...	.10
Benzaldehyde, tech. 945 lb drs.			Subcarbonate, USP 250 bbls..D	...	3.40	Rutter of Antimony, see Antimony Chloride		
Wks.....D	.75	.80	X-Ray diag. 1 lb bot.....D	...	3.93	CADMIUM, metal 100 lb bxs....D	...	1.00
USP, 40 lb clys.....D	1.50	1.60	Subgallate, USP, 175 lb bbls..D	...	1.80	Bromide, 50 lb cases jars....D	...	1.17
FFC, 40 lb clys.....D	1.60	1.75				Iodide, 10 lb bot.....D	...	4.45
BENZENE, 90% 8000 gal. tanks						Sulfide, ca.....D	1.50	1.60
Wks.....gal	...	.23						
110 gal. drs. wks.....gal	...	.28						
Pure, Tanks, wks.....gal	.24	.25						
110 gal. drs. wks.....gal	.29	.30						

"Baker's Analyzed"



Immediate truck deliveries from warehouse stocks in Birmingham, Ala., Boston, Buffalo, Chicago, Cincinnati, O., New York City, Philadelphia.

In 10-gallon carboys and in 1/2-gallon bottles, packed 10 bottles to standard case.

J. T. BAKER CHEMICAL CO.

PHILLIPSBURG, N. J.

New York Representative—H. B. Prior
17 East 42nd Street Phone: Vanderbilt 9490

C. P. Acids and Ammonia

Clear-sighted buyers of chemicals and acids have long recognized the superior qualities of "Baker's Analyzed."

Hydrochloric Acid

In carboys, net weight, 115 lbs.
In standard cases, 10 6-lb. bottles.

Nitric Acid

In carboys, net weight, 135 lbs.
In standard cases, 10 7-lb. bottles.

Sulphuric Acid

In carboys, net weight, 180 lbs.
In standard cases, 10 9-lb. bottles.

Ammonia

In carboys, net weight, 85 lbs.
In standard cases, 10 4-lb. bottles.





GRASSELLI GRADE

A Standard Held High for 85 Years

ZINC OXIDE Tomahawk Brand

This 35% leaded brand is uniformly consistent, permitting positive formulae standardization.

LITHOPONE
Brilliant white;
highly resistant
to exposure;
neutral; opaque.



ZINC OXIDE Snow Cap Brand

This low lead content pigment (5%) is noted for the excellence of the results it gives.

The Grasselli Chemical Company

Established 1839
CLEVELAND, O.

Albany
Birmingham
Boston

Chicago
Cincinnati
Cleveland

Detroit
Milwaukee

New Haven
New York

New Orleans
Philadelphia
St. Paul

Paterson
St. Louis

MERCK'S ACID ACETYLSALICYLIC

*Matchless in excellence of color, odor and form
Unusually free from uncombined salicylic acid*

An acetylsalicylic acid of such purity and excellence produces the finest tablets. They are white and keep well. They produce proper medicinal action, without the objectionable side-effects.

This acid in its beautiful microcrystalline form is highly desirable also for general use in pharmacy and medicine.

Compare our acid with any other brand. Let your chemist and tablet maker try it.

Unequaled by other producers

Sample on request

Prompt service

Main Office:
45 Park Place
NEW YORK

MERCK & CO.

WORKS at RAHWAY, N. J.

Branches:
ST. LOUIS
MONTREAL

Standard Chemicals

Medicinal

Analytical

Photographic

Technical

Chemicals

CAFFEINE ALK, USP 500 cans...D	4.00	: 4.25	CAMPHER, Amer. ref. 2500			Chalk, drop 1750 bbls.....D	...	: .03%
Second Hands.....D	...	: 3.75	bbls.....D	...	: .93	Precip. light 2500 cks.....D	...	: .04%
Hydrochloride, 100 bot.....D	...	: 6.65	2 1/2 lb slabs, 1000 cs.....D	...	: .94	Precip. heavy 5000 cks.....D	...	: .04%
Sulfate, 100 bot.....D	...	: 6.02	100 cakes, 1000 cs.....D	...	: .94%	Bulk.....ton	6.00	: 8.00
Chloride, 2500 cans.....D	...	: 3.15	1 oz. tab., 100 ctms.....D	...	: .98%	Precip. English, 70 bags.....D	...	: .07%
Hydrobromide, 100 bot.....D	...	: 4.75	1000 cs.....D	...	: .99	Charcoal, Bone, see bone black		
CALCIUM Acetate, 15000 bgs, c/l			1/2 oz. tab., 100 ctms.....D	...	: .99	Wood, powd. 1000 bbl.....D	...	: .05
10000.....D	...	: 4.00	Jap. ref. 2 1/2 lb slabs, 1000			Willow, powd. 1000 bbl.....D	...	: .07
Ammonate, 1000 bbls. c/l wks.D	...	: .11 1/2	cs.....D	.79	.80	China Clay, Dom., crude.....ton	6.00	: 8.00
Bromide, 1000 cs.....D	...	: .50	1 oz. tab., 1000 cs. 1 lb.			Washed & Ground.....ton	7.50	: 12.00
Carbide, 2200 dr. c/l wks.....D	...	: .04%	tins.....D	...	: .98	Imp., Filler Clay.....ton	14.50	: 16.00
Drums 10/1 wks.....D	...	: .05	1/2 oz. tab., 1000 cs., 1 lb.			Coating.....ton	...	: 25.00
Carbonate, tech. 10000 bags			tins.....D	...	: 1.00	Chloral Hydrate, USP 1000 dr. D	.70	: .75
c/l.....10000	1.00	: 1.10	Chinese ref. 2 1/2 lb slabs 1000			2500 jars.....D	.75	: .80
USP, precip. 1750 bbls.....D	...	: .64	cs.....D	...	: .58	Chinoidin, 1400 drs.....D	...	: .55
Chloride, solid, 6500 dr. c/l			Crude, 1000 cs.....D	.58	.60	Chloramine-T, 500 bot.....D	1.25	: 2.50
f.o.b. NY.....ton	...	: 24.50	Campfer, Monocrom, 1000 cs.....D	1.75	: 1.85	Chloroform, 500 bot.....D	.55	: .75
Imp.....ton	18.00	: 20.00	Caramel, 50 gal. bbls.....gal	.60	: .62	Chlorhydrin, Ethylene anhyd. 6000		
Gran., 3500 drs. c/l f.o.b.			Carbonate, 2500 bbls.....D	...	: .50	drs.....D	.75	: .85
NY.....ton	...	: 30.50	Carbon Bisulfide, 5000 dr. 10/1 NY			40% soln. 1000 cys.....D	.25	: .30
Flake 3300 drs. c/l f.o.b.			c/l drums, NY.....D	...	: .08	CHLORINE, Liquid 20000 cyl.		
NY.....ton	...	: 30.50	Carbon Black, 12 1/2 lb bags, wks.D	.11	: .15	c/l wks.....D	...	: .05
Anhyd., 3500 drs. f.o.b. NY.D	...	: .15	Carbon Tetrachloride, 14000 drs.			Tank car lots, wks. Contract..D	...	: .04
Glycerophosphate, 2500 bbls..D	1.50	: 1.80	NY.....D	.08%	: .09%	1000 cyl. c/l.....D	...	: .05
Hydrate, (see Lime)			Drums, c/l NY.....D	.08	: .08%	1000 cyl. 10/1 wks.....D	...	: .05
Hypophosphite, USP, 2500 cans.D	.60	: .65	7000 drs. single NY.....D	.08%	: .09%	1000 cyl. 10/1 ex-warehouse..D	.07	: .08
Iodide, 50 bot.....D	...	: 4.40	Carmines, No. 40 500 boxes.....D	4.75	: 4.85	Chlorobenzene, mono. 10000 drs.		
Lactate, tech. 5000 bbls.....D	...	: .13%	Cassia, edib., 10000 keg.....D	.40	: .45	wks.....D	.10	: .11
U.S.P.....D	.80	: .80	Technical, 2000 bbls.....D	.11%	: .13	Dr. c/l wks.....D	.08	: .08%
Nitrate, 2300 bbls, c/l NY.ton	...	: 40.00	Castoreum, 100 boxes.....D	4.00	: 4.50	Tank car lots wks.....D	...	: .08
Phosphate, tech. 3500 bbls.D	.09	: .10	Castor Oil, USP 50 gal. bbls.....D	...	: .15%	CHLORFORM, USP 5000 drs.D	...	: .35
Phosphate, precip. trislate 200			Cases, 800 2 tins.....D	...	: .16%	Second Hands, 6500 drs.....D	.33	: .34
D bbls, wks.....D	...	: .14	Tech., see Fixed Oils			Technical, 6500 drums.....D	.32	: .33
Phosphate, mono. 3250 bbls.D	.07	: .08	Caustic Potash, see potash, caustic			Chromium Acetate, 20% soln. 4000		
Sulfocarbonate, 10000 bags.....D	.55	: .57	Soda, see soda, caustic			bbls.....D	.08	: .10
Calomel, see Mercury			Cellulose Acetate, 10000 cases..D	1.75	: 2.00	Fluoride, Powd. 4000 bbls.....D	...	: .80
			Cerium Oxalate, USP 10000 kegs.D	...	: .36	Soln. 4000 bbls.....D	...	: .09
						Sulfate, 4000 bbls.....D	...	: .09
						Chrysarobin, USP, 500 cans.....D	...	: 2.85
						Cinchonidin alk., powd. 100 oz. tins	...	: .60
						Crystal.....oz	...	: .65
						Sulfate, 10000 tins.....oz	...	: .40

There can be no higher degree of purity
than that which is presented to you
under the label of



CODEINE SULPHATE

AND ITS SALTS

N. Y. Q. Samples and Prices sent on request.

**The New York Quinine &
Chemical Works, Inc.**

152-154 William St., New York

Saint Louis Depot: 18 South Broadway

Liquid Chlorine

REPUTATION

The reputation of EBG Liquid Chlorine for efficiency—and its twin brother service—has not been gained over night.

It has been steadily and painstakingly built up from the pioneer entry of EBG Liquid Chlorine into the various industries.

This very fact safeguards your interests—for the reputation gained through years of conscientious effort will not be lightly jeopardized.

There are advantages in using a product of reputation. When will you consult with us?



Electro Bleaching Gas Co.

PIONEER MANUFACTURERS OF LIQUID CHLORINE

Plant: NIAGARA FALLS, N.Y.

Main Office, 9 East 41st Street, New York

Chemicals

Cinchonine alk., pvd. 1000s. tinsos	...	: .35	COPPER, metal electrolytic c/l			Diethyl Sulfate tech. 50gal.drs..b	.20	: .25
Crystal	.....	: .43	NY	.....	13.25	CP drums	.40	: .50
Sulfate, 100 oz. tinsos	.....	: .25	Lake, c/l NY	.....	13.12	Digitalin, Pure, 1 oz. vial.....cs	10.00	: 10.35
Citrine Ointment, see Mercury			Casting, c/l NY	.....	12.87	Dimethylaniline, 840b drs. wks.b	.37	: .39
Coal Tar, Thx. & bbls., wks...gal	.08	: .08	Carbonate, 400b bbls.....b	.17	: .17%	Dimethylsulfate, 100b drs.....b	...	: .50
Cobalt metal, 100b kgs.....b	...	: 3.00	Chloride, 250b bbl.....b	...	: .28	Dinitrobenzene, 400b lbs.....b	.18	: .19
Cobalt Oxide, 500b bbls.....b	...	: 2.10	Cyanide, 100b drs.....b	...	: .33	Dinitrochlorobenzene, 400b bbls..b	.19	: .20
10lb tins, 200b cases.....b	...	: 2.45	Iodide, 5b bot.....b	...	: 5.65	Dinitronaphthalene, 350b bbls..b	.32	: .34
COCAINE alk., USP, 1 oz. vial..cs	...	: 10.00	Oxide, red 1000b bbls. ton lotsb	.17	: .18	Dinitrophenol, 350b bbls.....b	...	: .40
Hydrochloride, USP—1 oz. vials,			Sub-Acetate, verd. 440b bbls..b	.23	: .23	Dinitrotoluene, 300b bbls.....b	.18	: .19
25 ozs.....cs	...	: 7.07	SULFATE, crys. 450b bbls. 1c/l			Dionin, see Morphine, Ethyl		
In 1/4 oz. vials.....cs	...	: 7.50	spot	.....	4.85	Diphenylamine, 250b bbls.....b	.48	: .50
In crystals, granular, powder,			Carlots, bbls.f.o.b. NY.100b	...	4.65	Diphenylguanidine, 170b bbls..b	1.05	: 1.15
or flaky crystals as desired.			Carlots, bbls, delivered.100b	...	5.00	Dover's Powder, USP 5b tins...b	2.20	: 2.30
Cocoa Butter, bulk, 200b bales..b	.26	: .26%	Imp. 550b cals.....100b	4.50	: 5.00	Duboisine Sulfate, 1 oz. vial....cs	...	: 30.07
Fingers, cakes, etc. 12b bms..b	.34	: .35	Powdered, 350b 5 bbls....b	5.65	: 5.75	EARTH, Diatomaceous, see Kieselguhr		
CODEINE alk., 1 oz. vis. 10 oz.			Coppers, bulk c/l wks.....ton	...	16.00	Emetine alk., 15 gr. vis.....cs	...	: 1.30
lots	.....	: 9.27	200b bgs, c/l wks.....ton	...	18.00	Hydchlde, USP 1 oz. vial....cs	18.00	: 19.00
Hydrobromide, 1 oz. vis, 10 oz.			400b bbls. c/l wks.....ton	...	20.00	15 gr. vials.....cs	...	: .82
lots	.....	: 7.42	Powdered, bbls.....100b	...	1.50	EPSON SALT, tech. 300b bbls.		
Hydrochloride, 1 oz. vis, 10 oz.			Sugar, 400b bbls.....100b	...	1.25	NY	.....	: 2.15
lots	.....	: 8.27	Corn Syrup, 42 deg. 50 gal.	...	3.46	bbls. c/l NY	.....	: 2.00
Nitrate, 1 oz. vis, 10 oz. lotsos	...	: 8.27	bbls.	...	3.46	100b bgs, c/l NY	.....	: 1.80
Phosphate, 1 oz. vis, 10 oz.			43 deg. 50 gal. bbls.....100b	...	3.51	Imp., 220b bgs. c/l		
lots	.....	: 6.97	44 deg. 50 gal. bbls.....100b	...	3.58	NY	.....	: 1.30
Salicylate, 1 oz. vis, 10 oz.			45 deg. 50 gal. bbls.....100b	...	3.65	USP, 300b bbls, 10 bbls.100b	...	: 2.59
lots	.....	: 6.97	Corrosive Sublimate, see Mercury Bichloride			Carlots, bbls. ....100b	2.10	: 2.15
Sulfate, 1 oz. vis. 10 oz. lotsos	...	: 7.42	Cotton Soluble, 100b bbls. wt. b	.40	: .43	Imported, 400b bbls.....100b	...	: 1.75
Small Sizes, 1/4 oz. vials, 50c extra,			Coumarin, 25b tins.....b	3.85	: 4.00	100b kgs.....100b	2.00	: 2.25
1/4 oz. 25c extra, singles 7c extra			Second Hands	3.85	: 4.00	Ergotin, Bonjean, 1lb jars.....b	6.00	: 6.35
per oz.—25 oz. lots, 10c oz. cheaper			CREAM TARTAR, USP, 300b			Esarine alk., 1 oz. vial.....cs	...	: 24.07
than above. Less than 10 ozs. 15c oz.			bbls.	...	.23	Salicylate, USP 1 oz. vial....cs	...	: 16.07
higher than above.			Imp. powd. USP, 224 bbls...b	.22	: .23%	Sulfate, USP VIII, 1 oz. vial....cs	...	: 12.07
COD LIVER OIL, Norwegian, 30 gal.			Creosote, USP, 42b chys.....b	.45	: .50	ETHER, USP 55b drums.....b	...	: .13
bbls.	.....	: 25.50	Carbonate, 1lb bot. 25b...b	1.80	: 2.00	Anaesthesia, 55b drums.....b	...	: .16
Newfoundland, 30 gal. bbls. bbl	...	: ...	Creosote Oil, 50 gal. drs.....gal	.20	: .22	USP, 1380 55b drums.....b	...	: .40
Colchicine alk., USP 1 oz. vial....cs	...	: 15.07	Cresol, USP, 400b drums.....b	.23	: .26	Washed, 55b drums.....b	...	: .32
Salicylate, 1 oz. vial.....cs	...	: 30.07	Cyanamide, bulk c/l wks, Amm.unit	...	: 2.25	Motw, 1b cans.....b	.24	: .27
Colloclon USP 30b drums.....b	...	: .22	DIAMINOPHENOL, 100b kgs..b	...	: 3.30	Ether, Nitrous, 1b bot.....b	.92	: .95
Ethyl Benzyl Aniline, 300b drs..b	...	: 1.30	Diarsidine, 100b kgs.....b	...	: 4.90	Ethyl Benzyl Aniline, 300b drs..b	...	: 1.30
			Dichlorobenzene, 1000b drs...b	.06	: .07			
			Diethylaniline, 850b drs.....b	.55	: .60			
			Diethyl Phthalate, 25b cans..b	.50	: .55			
			1000b drs.....b	.40	: .45			



Baker & Adamson Reagent Chemicals

Standard Quality

Manufactured in Easton, Pa., since 1884

GENERAL CHEMICAL COMPANY

40 Rector Street, New York

Baltimore
Buffalo

Chicago
Cleveland

Denver
Easton

Philadelphia*
Pittsburgh

Providence
San Francisco

The Nichols Chemical Co., Ltd., Montreal

Cable Address: Lycourgas, N. Y.

Chemicals

JALAP RESIN, lump 5 lb. tins... lb	3.25	3.25	Lithalcol, 5 lb. bot..... lb	5.50	6.50	Manganous—(continued)		
Powd. tins..... lb	2.50	2.50	Litharge, see lead oxide			Glycerophosphate, 5 lb/ tins.... lb	...	3.10
Kapoc, 100 lb double bale..... lb	.28	.30	Lithium Carb. USP, 100 lb kgs... lb	1.50	1.50	Hypophos. USP VIII 5 lb cans. lb	...	1.55
KIESELGUHR, 90 lb bags NY... ton	60.00	70.00	Bromide, 100 lb cs..... lb	1.75	1.85	Iodide, 1 lb bot..... lb	...	6.65
LANGUIN, see Adeps Lancae			Citrate, USP 100 lb bags..... lb	1.70	1.75	Ore, bulk NY..... unit	.40	.45
LEAD, metal c/l NY..... 100 lb	8.70	9.50	Iodide, 5 lb bot..... lb	...	5.40	Sulfate, 600 lb tanks NY..... lb	.10	.11
Acetate, white crystals 500 lb			Lithopone, 400 lb bbis, 1c/1 wks. lb	...	.07%	Marble Flour, bulk..... ton	10.00	12.00
Bbils. wks..... lb	...	.14%	Bbils. c/l wks..... lb	...	.06%	See also Calcium Carbonate		
100 to 250 lb kgs. wks. lb	...	.14%	Bags, c/l wks..... lb	...	.06%	MENTHOL, USP, 60 lb cans.... lb	...	12.25
White, broken, bbis, wks. 100 lb	...	.13.85	Imported, 400 lb bbis..... lb	...	.05%	Less cases, 5 lb tins..... lb	...	12.75
White, gran., bbis, wks. 100 lb	...	.13.90	Litmus Cubes..... lb	.90	1.00	MERCURY, metal 75 lb flask... flask	60.00	61.00
White, powd., bbis, wks..... lb	...	.15	MAGNESITE, crude..... ton	...	15.00	Less Flasks, 5 lb jugs..... lb	...	.97
Kegs. wks..... lb	...	.15%	Calcined, 500 lb bbis..... ton	...	55.00	Bichloride, cryst. 25 lb bxs.... lb	...	1.02
Brown, broken, bbis, wks..... lb	...	.13	Magnesium mtll. sticks 100 lb cs. lb	1.25	1.30	Gran. powd., 200 lb kgs.... lb	...	.87
USP, 100 lb kgs..... lb	...	.17	Carb. tech 70 lb bags NY... lb	.08	.08%	Bisulfate, 25 lb boxes..... lb	...	.86
Aluminate, 100 lb bbis. 1c/1 wks. lb	.30	.35	75 lb bbis. NY..... lb	.05%	.09	Blue Mass, 25 lb boxes..... lb	...	.83
Bbils. c/l wks..... lb	.19%	.30	USP, 80 lb bbis..... lb	.10	.11	Powdered, 25 lb boxes..... lb	...	.64
Paste, 600 lb bbis..... lb	.12	.13	USP, blocks 100 lb cs. 1, 2, 4	...	.19	Blue Ointment, USP 25 lb cans	...	.77
Iodide, USP VIII 5 lb bot..... lb	3.30	3.40	500 lb cs..... lb	...	.12	50%..... lb	...	.57
Nitrate, 500 lb bbis. wks..... lb	...	.12	Chloride, fused 575 lb drs. c/l	...	.34.00	USP, dilute 25 lb cans 30% lb	...	.67
Oxide, Hgbs, 500 lb bbis. 100 lb	11.15	11.40	wks..... ton	...	.36.00	33 1/3% Mercury..... lb	...	.54
100 lb kgs. wks..... lb	...	.11%	Flaked, 350 lb drs. wks c/l ton	...	26.00	Calomel, 50 lb bxs..... lb	...	1.10
Oxide, red 500 lb bbis, wks..... lb	11.85	11.90	Imp., fused 900 lb bbis NY ton	26.00	28.00	Citrine Ointment 25 lb jars. lb	...	.54
100 lb kgs wks..... lb	...	.11%	Fluodilicate, crystals 400 lb bbis	...	.12	Iodide, green 25 lb jars..... lb	...	4.00
Peroxide, 100 lb drs..... lb	...	.26	wks..... lb	...	.07	Red, USP 25 lb jars..... lb	...	4.10
White, basic carb. 500 lb bbis	...	.10%	30% soln. 500 lb bbis. wks. lb	...	.08	Yellow, USP VIII 25 lb jars. lb	...	1.38
wks..... lb	.10	.10%	Soln. bbis. c/l wks..... lb	...	.08	Red Precip. USP 25 lb bxs.... lb	...	1.48
Bbils. c/l wks..... lb	...	.09%	Glycerophosphate, 5 lb tins.... lb	...	3.40	Powder, USP 25 lb bxs..... lb	...	1.49
100 lb kgs wks..... lb	...	.14%	Hypophosphite, 5 lb cans..... lb	...	1.20	White Precip. USP 25 lb bxs.... lb	...	1.54
White, sulfate 500 lb bbis. wks. lb	.09%	.09%	Oxide, USP light 100 lb bbis.... lb	...	.42	Powder, USP 25 lb bxs..... lb	...	.63
Bbils. c/l wks..... lb	...	.09%	USP, heavy 250 lb bbis.... lb	...	.50	With chalk, USP 25 lb bxs.... lb	...	.80
Licorice Ext. Mass, cans..... lb	.25	.28	Peroxide, 5 lb cans..... lb	...	2.40	Meta-Nitraniline..... lb	.78	.80
Compound powder, bbis..... lb	.11	.13	Perborate, 1 lb tins..... lb	...	2.62	Meta-Nitro-para-Toluidine, 300 lb	...	2.20
Powdered..... lb	.38	.40	Salicylate, 100 lb kgs..... lb	...	.75	bbis..... lb	...	2.20
Sticks, 1 ea. 100 lb cans..... lb	.45	.50	Sulfate, see Epsom Salts			Meta-Phenylenediamine, 300 lb	...	.95
LIME (Salts, see Calcium Salts)			Manganese Chloride, 300 lb cas.	...	.09%	bbis..... lb	...	.98
Live, 325 lb bbis. ton lots, wks. lb	...	.01%	NY..... lb	...	.10	Meta-Toluylenediamine, 300 lb	...	.82
Single bbl. wks..... lb	...	.01%	Borate, 30%, 200 lb bbis.... lb	...	.24	bbis..... lb	...	.90
Hydrated, 167 lb. bbl. ton lots	...	.01%	100 lb kgs..... lb	...	.35			
wks..... lb	...	.01%	Dioxide, 90-94% 900 lb bbis.	...	80.00			
Single bbl. wks..... lb	...	.01%	NY..... ton	85.00	85.00			
Oyster Shell, 150 lb bbl. single. lb	...	.03%	85-90%, 900 lb bbis. NY ton	85.00	90.00			
125 lb bag..... lb	...	.03%	Hydrated, precip. 100 lb kgs. lb	.33	.35			
Sulfur, dry 200 lb drs. NY... lb	.08	.10						
Drs. c/l NY..... lb	...	.10%						
33° Soln. 50 gal. bbis, NY gal	.15	.16						

BETA-NAPHTHOL

DYESTUFFS AND INTERMEDIATES

CONSOLIDATED COLOR
& CHEMICAL CO.CENTRAL DYESTUFF
& CHEMICAL CO.

Reg. U. S. Pat. Off.

WILLIAMSBURG
CHEMICAL CO.and other
AMERICAN MANU-
FACTURERS

Distributed by

H.A. METZ & CO. Inc.

One-Twenty-Two Hudson Street, New York City.

Boston

Philadelphia

Providence

Chicago

Charlotte

San Francisco

Chemicals

METHANOL (Wood Alcohol)			NAPHTHA, Solvent, 110 gal. drs.			Orgall. USP, 5 lb. bot.....D			2.00	: 2.00
95%, tanks.....gal	...	.85	via.....gal	.29	: .30	Purified, 5 lb. bot.....D	1.50	: 2.50		
Drums, c/1.....gal	...	.87	8000 gal. tank cars via.....gal	.24	: .25	Crude, 5 lb. bot.....D	.80	: 1.25		
Drums, 1c/1.....gal	...	.88				PALLADIUM, metal 10 oz. lots.....oz	75.00	: 76.00		
97%, tanks.....gal	...	.88	NAPHTHALENE, Flaks, 175 lb. bbls.			Pancrastin, USP 5 lb. bot.....D	1.25	: 1.40		
Drums, c/1.....gal	...	.90	via.....D	...	.06 3/4	Papain, 10 lb. bot. USP, Powd.....D	2.00	: 2.25		
Drums, 1c/1.....gal	...	.93	Bbls. c/1.....D	...	.06 3/4	Crude, 150 lb. cases.....D	1.80	: 1.85		
Pure, Acetone free, lbs.....gal	...	.90	Bbls., second hands NY.....D	...	.07 3/4					
Drums, c/1.....gal	...	.92	Balls, 250 lb. bbls. via.....D	...	.07 3/4	Paraffin, ref'd 200 lb. ca. slabs				
Drums, 1c/1.....gal	...	.95	Bbls., c/1 via.....D	...	.07 3/4	120-125 Deg. M. P.....D	.03 3/4	: .03 3/4		
Bbls. incl. 5c higher	...	.95	Bbls., second hands NY.....D	...	.07 3/4	125-130 Deg. M. P.....D	.04	: .04 3/4		
Methyl Acetate, 100 gal. drums gal	1.07	: 1.10	Crushed, shipped, bps., via.....D	...	.05 3/4	130-135 Deg. M. P.....D	.04	: .04 3/4		
Tanks cars.....gal	...	1.05	Crude, imp., bags.....D	...	.02 3/4	135-140 Deg. M. P.....D	.05	: .06 3/4		
Chloride, 50 lb. cys.....D	...	.50	Nickel Metal, electrolytic 100 lb.			Para-Aminocetanilid, 100 lb.				
Salicylate, USP, 50 lb. cases.....D	...	.47	bags.....D	...	.30	bags.....D	1.05	: 1.15		
500 lb. drums.....D	...	.45	Ingot, 100 lb. kgs.....D	...	.29	Para-Aminophenol, 100 lb. kgs.....D	1.35	: 1.30		
Second Hands, cases.....D	...	.45	Salt, single 400 lb. bbls. NY.....D	...	.11	Hydrochloride, 100 lb. kgs.....D	1.40	: 1.50		
Methylene Blue, tech. 100 lb. kgs. D	1.90	: 1.50	Double, 400 lb. bbls. NY.....D	...	.10	Para-Dichlorobenzene, 150 lb. bbls.				
USP, medicinal 5 lb. cases.....D	...	2.65	Oxide, 100 lb. kgs NY.....D	...	.40	via.....D	.17	: .30		
Nichol's Ketone, 225 lb. bbls.....D	...	3.75	Sulfate, 450 lb. bbls.....D	...	.07	25-50 lb. kgs.....D	.18	: .33		
Milk, powd. 150 lb. bbls.....D	...	.14	Nitre Cake, bulk via.....ton	5.50	: 6.00	Paraldehyde, 100 gal. drs.....D	...	: .48		
Milk Sugar, see sugar of milk			500 lb. bbls.....ton	13.00	: 14.00	Paraformaldehyde, USP 100 lb. ca. D	...	: .50		
Mineral Oil, see oil mineral			Nitrobenzene, crude, 1000 lb. drs.			Para-Nitrocetanilid, 300 lb.				
Mineral Rubber.....ton	33.00	: 54.00	via.....D	...	.09	bbls.....D	.55	: .60		
Monochlorobenzene, see chlorobenzene			Redistilled, 1000 lb. drs. via.....D	...	.09 3/4	PARA-NITROANILINE, 300 lb. bbls.				
Monocetylamine, 900 lb. drs.....D	...	1.00	Nitronaphthalene, 550 lb. bbls.....D	...	.20	via. ton.....D	.63	: .75		
Monomethyl paramidophenol sulfate			Nitrotoluenes, mixed 1000 lb. drs.	...	.14	Para-Nitrochlorobenzene, 1200 lb. drs.				
100 lb. drs.....D	3.30	: 3.75	via.....D	...	.05 3/4	via.....D	.20	: .30		
MORPHINE Sulfate, USP 5 oz. tins			Ochre			Para-Nitro-ortho-Toluidine, 300 lb.				
10 oz. tins.....oz	...	6.95	Oil Fuel, see Fuel Oil			bbls.....D	3.75	: 2.85		
Acetate, 5 oz. tins 10 oz. lots.....oz	...	6.95	OIL MINERAL, wh. 50 gal. bbls. gal	1.00	: 1.25	Para-Nitrophenol, 185 lb. bbls.....D	.70	: .75		
Hydrobromide, 5 oz. tins 10 oz. lots	...	6.95	Oil Mirbane, see nitrobenzene			Para-Nitrodimethylaniline, 120 lb.				
Hydride, 5 oz. tins 10 oz. lots	...	6.95	Opium, see crude drugs			bbls.....D	...	: .95		
Diacetyl Alk., 3/4 oz. via. 10 oz.	...	10.75	Orange Mineral, 800 lb. cases NY. D	...	.15 3/4	Para-Nitrotoluene, 350 lb. bbls.....D	.55	: .60		
Hydride, 3/4 oz. via. 10 oz. via	...	9.75	500 lb. bbls. NY.....D	...	.15 3/4	Para-oxo-Benzaldehyde, 100 lb.				
Ethyl Hydride, 3/4 oz. via. 10 oz.	...	10.95	Ortho-Aminophenol, 50 lb. kgs.....D	2.40	: 2.50	kgs.....D	1.50	: 1.60		
Small Sizes: 3/4 oz. via. 50c extra;			Ortho-Anhydride, 100 lb. drs.....D	...	...	Para-Phenetidin, 500 lb. drs.....D	1.55	: 1.80		
3/4 25c extra; single oz. via. 7c extra,			Ortho-Dichlorobenzene, 1000 lb. drs.	...	.06	Para-Phenylenediamine, 350 lb.				
lots in 5 oz. tins, 10c ea. lower than			via.....D	...	.08	bbls.....D	1.40	: 1.50		
above schedule. Less than 10 oz. lots			Ortho-Nitrochlorobenzene, 1200 lb.			Para-Toluene-Sulfonamide, 175 lb.				
15c ea. higher than above schedule.			drs. via.....D	...	.35	bbls.....D	.40	: .41		
Musk Ambrette, 1 lb. cases.....D	15.00	: 16.00	Ortho-Nitrophenol, 350 lb. 3 bbls. D	...	1.25	Para-Toluene-Sulfochloride, 410 lb.				
			via.....D	...	.10	bbls. via.....D	.13	: .30		
			Ortho-Toluidine, 350 lb. bbls.....D	...	.13	Para-Toluidine, 350 lb. bbls. via. D	.88	: .90		



SULPHUR

SUBLIMED
ROLL BRIMSTONE
FLOWERS
PRECIPITATED 100%

LAC SULPHUR

For Technical Purposes Only

BATTTELLE & RENWICK

Estb. 1840

Incp. 1902

80 Maiden Lane, New York, N. Y.

CRESOL U. S. P.

CRESYLIC ACID

PYRIDINE

DENATURED

ALCOHOL

SPOT STOCKS CARRIED

INDUSTRIAL CHEMICAL CO.

200 Fifth Avenue

NEW YORK

Chemicals

PARIS GREEN			Piperazine Hydrate, 1 lb bot....			POTASSIUM—(Continued)		
Arcene Bado, 500 lb kegs....	.26	.28	Pitch, Coal-Tar, wks.....	30.00	33.00	Chlorate, crys. 112 lb kgs. e/1		
Keps, 100 lb.....	.28	.30	Plaster Paris, tech. 250 lb bbls. bbl	3.30		wks.....	.08%	.08%
Kils, 54, 28, 14 lb.....	.31	.33	True Dental, 300 bbls.....	4.50		Imp. 112 lb kegs NY.....		.08
Packages, 5 and 2 lbs.....	.32	.33	Platinum, metal soft 10 oz. lots.....	122.00		Powd., 112 lb kegs wks.....	.08%	.09
Packages, 1 lb, 1/2, 1/4 lb.....	.34	.38	Podophyllin, 5 lb bot.....	6.00	6.35	Imp., kegs NY.....	.07	.07%
Paris White, see whitening, French			Second Hands.....	5.95	6.00	Pyrotechnic, fine powd. NY.....	.08	.09
Pepsin, USP 5 lb bot.....	2.25	2.50	POTASH, CAUSTIC, solid 88-92%			USP, fine crys. 110 lb kegs		
PETROLATUM, green 300 lb bbls. lb	.02%	.03	700 lb drs. wks.....			NY.....	.08	.09
Dark Amber 300 lb bbls.....	.03%	.04	Imp., 88-92% 700 lb drs. NY.....	.06%	.07	Citrate, USP 10 lb cans.....	.70	.74
Light Amber, 300 lb bbls.....	.04%	.05	USP, by alcohol 5 lb cans.....	.46	.48	Cyanide 110 lb cans.....		.65
Cream White, USP 300 lb bbls. lb	.07	.07%	cans.....	.30	.35	Glycerophosphate, 75% Sola. 25 lb		
Lily White, USP, 300 lb bbls. lb	.09	.09%	POTASSIUM Acetate, USP, 100 lb			tins.....	1.80	1.70
Snow White, USP, 300 lb bbls. lb	.12%	.13	kegs.....	.30	.31	Guaiacal Sulfonate, 5 lb cans,		
Phenol, see also acid carbolic			10 lb.....	.11	.12	10 lb.....	2.55	2.60
American makers, drums wks. lb			Bicarbonate, crys. 220 lb bbls. lb	.09%	.09%	Hypophosphite, 10 lb cans.....	.80	.85
Open market, drs.....	.87	.88	wks.....	.09%	.09%	Iodide, USP, 100 lb cans.....	3.60	3.65
240 lb des drs. wks.....			Bichromate, crys. 900 lb casks. lb		.10	Second Hands, cases.....		3.65
Natural, 240 lb des drs. wks. lb			Powd., 900 lb casks wks. lb		.13	Lactophosphate, 400 bot.....		.90
Imported, 336 lb des drs. lb			Binocalate, 300 lb bbls.....	.25	.28	Metabisulfite, 300 lb bbls.....	.18	.20
Phenolphthalein, USP, 100 lb drs. lb	1.40	1.50	Bisulfate, C.P., 5 lb cans.....		.30	Imp., 300 lb bbls.....	.12	.14
5 lb cans, 100 lb lots.....	1.50	1.60	100 lb kegs.....		.22	Muriate, 80%, 200 lb bags, NY		
Phenyl-Alpha-Naphthylamine 100 lb			Bromate, 100 lb cs.....		.45	K ₂ O unit.....		.68
kegs.....			BROMIDE, USP cryst. 450 lb			Nitrate, see Saltpetre		
Phenylethylalcohol, 1 lb bot.....	6.75	8.75	bbls.....		.38	Oxalate, neutral, 100 lb kegs. lb	.36	.38
Imported.....	7.75	9.75	Granular, 300 lb bbls.....		.30	Perchlorate, 112 lb kegs.....	.09%	.10
Phosgene, 100 lb cylinders.....		1.00	Cases, 100 lb.....		.31	PERMANGAN, USP, crys. 500 lb		
Phosphorus Oxichloride, 175 lb cyl. lb	.35	.40	Imported, USP, 220 lb cs. lb	.18	.19	drs. wks.....	.13%	.14
Phosphorus, red 110 lb cs. wks. lb	.75	.85	CARBONATE, 80-85% calc.			Imp. 112 lb drs.....	.13%	.17
Imported, 112 lb cases.....			800 lb cks.....	.05%	.05%	Prussiate, red, 100 lb bbls.....		.43
Yellow, 110 lb cs. wks. lb	.40	.45	80-85%, hydrated, 800 lb			500 lb casks.....		.41
Imported, 112 lb cases.....			cks.....	.06%	.06%	Prussiate, yellow, 500 lb casks. lb	.19%	.20
Phosphorus Trichloride, 175 lb cyl. wks.		.45	80-95% calc. casks.....	.06%	.06%	Salicylate, 25 lb cans.....	.63	.75
Phthalic Anhydride, 100 lb bbls. lb		.30	96-98% calc. casks.....	.06	.06%	Sulfate, 200 lb bags, NY. K ₂ O unit		.94
Pilocarpine Hydrochloride, USP 25 cs.			99% calc. casks.....	.07%	.07%	USP, VIII, 100 lb kegs.....	.15	.18
lots, 1 oz. vials.....		3.57	USP, 100 lb kegs.....	.12%	.13	Sulfocyanide, CP 25 lb jars.....		.50
Nitrate.....		3.57	99% CP casks.....	.12	.12%	Tartrate, neutral, 100 lb kegs. lb		.51
Single casks.....		3.82				Titanium Oxalate 200 lb bbls. lb	.28	.30
Alkaloid, 15 gr. vls.....		.75						

Largest producers of Pure Phthalic Anhydride in the world



SELDEN

99.99+% Pure.

Brand PHTHALIC ANHYDRIDE

is the Product by which all other
Brands may be Standardized.

IT-IS-PURE

Unless Phthalic Anhydride melted in a TEST TUBE, has the same colorless appearance as SELDEN BRAND, it contains foreign matter which proves it is *not* STANDARD.

It is possible that trouble in commercial or research work can be traced directly to the use of *impure* Phthalic Anhydride.

THE SELDEN COMPANY

Pittsburgh, Pa., U. S. A.

Chemicals

Pumice Stone, lump, 250 lb bbls. D	.04%	.08	QUININE—(continued)			Santonin USP, 1 lb bot.	D 145.00	:148.00
Lump, bags	.03%	.05	Tartrate	.83		Powd. 1 lb bot.	D 148.00	:150.00
Powdered, 350 lb bbls.	.02%	.03	Valerate	.89		Saponin, ex Quillaja, 5 lb tins.	D 1.00	: 1.25
Pyridine, 50 gal. drums	3.00	: 3.25	Small Sizes: 1 oz vials or cans,			Satin White, 500 lb bbls.	D	: .01%
QUICKSILVER, see Mercury			50cm lots, 5c ea extra; 5cm cans,			Schaeffer's Salt, 250 lb bbls. wix. D	.80	: .08
Quinidine Alk., 100cm tins.	.75		50cm lots, 2c ea extra; 25cm cans,			Scopolamine, see hyoscine.		
Sulfate, 100cm tins.	.50		50cm lots, 2c ea extra; single 1oz			Seidlitz Mixture, 225 lb bbls.	D .17	: .18
Quinoline, see Chinoline			vials or cans, 5c extra. All minor			SILICA		
QUININE SULFATE, USP,			quinine salts sold and quoted basis			Crude, bulk, minus	ton 10.00	:12.00
American, 100cm tins.	.50		100cm lots in 100cm cans. Sulfate			Refined, floated, bags	ton 18.00	:30.00
1oz tins, 100cm lots.	.57		and bisulfate acid basis 100cm			Air floated, bags	ton 32.00	:50.00
Dutch, 100cm tins.	.50		lots in 100cm cans. Smaller orders			Extra, floated, bags	ton 55.00	:65.00
Java, 100cm tins.	.50		or containers extra as			SILVER, metal, American	.90%	
Japanese, 100cm tins.	.50		schedule.			Foreign	.04%	
QUININE ALK., USP, 100cm tins.	.67		S SALT, 250 lb bbls. wix.	.55	: .70	Colloidal, 16oz bot.	.25%	
Acetate	.85		Red Lead, see lead oxide			Silver Iodide, 16oz bot.	.69	
Arsenate	.88		Red Precipitate, see mercury			Nitrate, USP, 200cm bot.	.44	: .45
Bismate	.88		Resorcinol, see resorcinol.			Nucleinate, 16oz bot.	.34	: .35
Bisulfate, USP	.50		Resorcinol tech, 100 lb bags	D 1.35	: 1.50	Proteinates, 16oz bot.	.34	: .35
Citrate	.62		USP, 25 lb cans	D 2.35	: 2.35	Soap, Castile, 40 lb bas.	D .30	: .35
Dichloride, USP	.64		Rochelle Salt, USP, 225 lb bbls.	D .20	: .21	Powd. USP, 250 lb bbls.	D .25	: .25
Dibromide	.66		Imp. USP, 300 lb bbls.	D .19%	: .20	Green, USP, 150 lb bags	D .07	: .07%
Dicarbonate, 10cm tins.	2.50		Rosewater, triple, 5 gal. demis.	gal .90	: 1.10	Seasone, see Talc. crude		
Ethyl Carbonate, 16oz. tins.	.91		Rotten Stone, lump imp.	D .67	: .68	SODA ASH, 58% light		
Ferrocyanide	.82		Lump selected, bbls.	D .09	: .12	1-4 bags, deliv'd NY.	100 lb	: 2.10
Formate	.88		Powdered, bbls.	D .65	: .65	5 & Up bags, deliv'd NY.	100 lb	: 2.04
Glycerophosphate	.88		Domestic, bags, min.	ton 24.00	: 30.00	1-4 bbls., deliv'd NY.	100 lb	: 2.44
Iodide	.88		SACCHARIN, USP, 1 lb cans, 25 lb	D 1.90	: 2.10	5 & Up bbls., deliv'd NY.	100 lb	: 2.28
Hydrobromide, USP	.62		Soluble, USP, 1 lb cans, 25 lb.	D 1.90	: 2.10	Contract, Basis 58% bags	c/l	: 1.38
Hydrochloride, USP	.62		Salt Ammoniac, see Ammon. Chloride			Wix.	100 lb	: 1.38
Hydrochlorosulfate	.66		Saltin, USP, 1 lb cartons, 25 lb.	D	: 4.56	Prompt and spot, Basis 58% bags	c/l	: 1.44
Hydride & Urea, USP	.88		Salt, USP, 100 lb drums	D .80	: .85	Contract, Basis 58% dense bags	c/l	: 1.45
Hypophosphite	.88		Salt, Common, see sodium chloride			c/l wix.	100 lb	: 1.45
Lactate	.75		Salt Cake, c/l f.a.b. wix.	ton 20.00	: 24.00	Pmt. and spot, Basis 58% bags	c/l wix.	: 1.55
Phenolsulfonate	.82		SALIPETRE, Double Refined			SODA, CAUSTIC, 76% solid		
Phosphate	.74		Granular, 400-500 lb bbls.			1-4 drums deliv'd NY.	100 lb	: 3.91
Salicylate, USP	.65		c/l wix	D	: .06%	5 & Up drums deliv'd NY.	100 lb	: 3.76
Tannate, USP	.45		Low c/l wix.	D	: .05%	Ground & Flake, 76%		
			Large Crystals, 350-400 lb bbls.			1-4 drums, deliv'd NY.	100 lb	: 4.31
			c/l wix.	D	: .08	5 & Up drums deliv'd NY.	100 lb	: 4.16
			Small Crystals, 350-400 lb bbls.			1-4 bbls., deliv'd	100 lb	: 4.56
			c/l wix.	D	: .07%	5 & Up bbls., deliv'd	100 lb	: 4.41
			Powdered, bbls. c/l wix.	D	: .07%			
			Imported, 500 lb bbls., NY.	D	: .07			



DIAMOND "TESTED"

MEANS
ACTUAL 76%

Manufactured and Sold by

DIAMOND ALKALI COMPANY

PITTSBURGH, PENNSYLVANIA



NO SALE is considered complete until the other partner—the buyer—feels that all his requirements have been fulfilled.

That is SOLVAY'S principle toward all consumers of Alkali.

Solvay 58% Soda Ash

Dense—Light—Extra light (Fluf)

Solvay 76% Caustic Soda

Solid—Flake—Ground

Solvay Super Alkali { 15%—45%
36%

Solvay Snow Flake Crystals

Solvay Laundry Soda

Solvay Cleansing Soda

Solvay Tanners Alkali

Solvay Tanners Soda

Solvay Liquid Caustic Soda

Solvay Calcium Chloride 73%—75%



The Solvay Process Company

Detroit, Mich.

Syracuse, New York

Hutchinson, Kan.

Sales Division Wing & Evans, Inc. - 40 Rector St., New York

Boston

Cincinnati

Cleveland

Detroit

Pittsburgh

Chicago

Syracuse

Indianapolis

Chemicals

SODA CAUSTIC—(Continued)

Contract basis 76% c/l wts.	100 lb	...	3.10
Fmpt and spot, Basis 76% c/l wts.	100 lb	...	3.30
Contract 76% low grade c/l wts flat	100 lb	...	3.02
Ground & flake, 76% fmpt and spot, wts c/l drs.	100 lb	...	3.60
Contract, 76% drums, c/l wts flat	100 lb	...	3.50
USP, stick, 100 lb cases	...	...	.19
Pure, stick, by alcohol	...	...	.37
SODIUM ACETATE, crys 450 lb bbls			
wts.	...	...	.05
Tom lots, bbls, wts.	...	...	.05
Imp. 500 lb cases	...	...	...
Aluminum Sulfate, see alum soda	...	...	...
Bicarbonate, USP, 100 lb bbls	...	...	.65
Bicarbonate, 400 lb bbls NY 100 lb	...	...	2.35
Bbls c/l wts	100 lb	...	2.00
112 lb kegs wts	100 lb	...	2.25
112 lb kegs, NY	100 lb	...	2.50
Bichromate, 600 lb cases wts.	...	...	.07%
Cases, c/l wts	...	...	.07%
Cases, NY	...	...	.07%
Bisulfite, dry powder, 500 lb bbls, wts	...	...	.04
Solution, 32-40°, 500 lb bbls	...	...	1.25
wts	100 lb	...	1.75
Bromate, 100 lb cs.	...	...	1.05
Bromide, USP, 450 lb bbls	...	...	.37
Cases, 100 lb	...	...	.22
Imp. USP, 112 lb cs.	...	...	.24
Carodylate, USP, 5 lb bot, 25 lb	...	...	5.50
Carbonate, sal soda, 350 lb bbls	...	...	1.10
lc/l NY	100 lb	...	1.35
Works c/l	100 lb	...	1.10
Monohydrate, 400 lb bbls	...	...	...
lc/l	100 lb	...	2.45
Pure photographic, 100 lb	...	...	...
bag	...	...	.06

SODIUM—(Continued)

Chlorate, 112 lb kegs, wts	...	...	.08%
Imported, 112 lb kegs	...	...	.08%
Chloride, tech. 200 lb bags	13.00	...	13.00
C. P., 300 lb bbls	...	...	.05
Citrate, USP, IX, 100 lb kegs	...	...	.64
USP, VIII, 100 lb kegs	...	...	.50
Cyanide, 96-98%, 100 lb cases	...	...	.22
wts	...	...	.22
Tom lots, wts	...	...	.19%
73-76%, 100 lb cases, wts	...	...	.20
125-128%, 200 lb cs.	...	...	.19%
120-125%, 200 lb cs.	...	...	.08%
Fluoride, 300 lb bbls, wts	...	...	.09
Imp. 350 lb bbls	...	...	1.65
Glycerophos, USP, crys 25 lb	...	...	1.75
cases	...	...	1.70
Powder, 25 lb tins	...	...	1.00
Solution, USP 25 lb tins	...	...	1.05
Hydroxide, see Soda Caustic	...	...	...
Hypochlorite, Soln, 100 lb crys	...	...	.05
14 1/2% soln, 50 lb drs	...	...	.24
Hydroxide, 200 lb bbls, wts	...	...	.22
Hydrophosphite, USP, 25 lb cases	...	...	.70
HYPOSULFITE, tech. pes crys.			
375 lb bbls, wts	100 lb	...	2.90
Bbls c/l wts	100 lb	...	2.75
100 lb kegs wts	100 lb	...	3.00
Imp.	100 lb	...	3.00
crystallized, bbls, wts	100 lb	...	3.15
Bbls c/l wts	100 lb	...	3.00
Kegs wts	100 lb	...	3.25
Regular crystals	...	...	2.65
Iodide, USP, 25 lb jars	...	...	4.25
Metadate, 150 lb bbls	...	...	.55
saponifonate, 300 lb bbls	...	...	.60
Nitrate, crude, 95%, 200 lb bags	...	...	2.40
c/l NY	100 lb	...	2.51
Futures, NY	100 lb	...	2.52
Double refined, 400 lb bbls	...	...	...
gran c/l wts	...	...	.04%
Nitrite, 500 lb bbls, wts	...	...	.08
Bbls spot, makers	...	...	.08%
Imp. 650 lb cases	...	...	.08

SODIUM—(Continued)

Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls, wts	...	...	.35
Oxalate, neutral, 100 lb kegs	...	...	.30
Perborate, 275 lb bbls	...	...	.18
Imp., 225 lb drs	...	...	.37
Peroxide, 200 lb cases	...	...	.03%
Phosphate, di-sodium, tech 550 lb bbls	...	...	.07
USP, gran. 275 bbls	...	...	.05%
Imp. gran.	...	...	.10
USP, recryst. 275 bbls	...	...	.34
Mono-sodium 100 lb kegs	...	...	.04%
Tri-sodium tech. c/l, bbls	...	...	.60
Picramate, 100 lb kegs	...	...	.08
Para-Toluene Sulfonate, 175 lb bbls	...	...	.12
PRUSSIAN, yellow, 250 lb bbls	...	...	.11%
Imp. 450 lb cs.	...	...	.24
Pyrophosphate, 100 lb kegs	...	...	.40
Salicylate, 100 lb kegs	...	...	.37
Second Hand, USP, kegs	...	...	...
Silicate, 60° 700 lb bbls, f.a.s.	...	...	2.00
NY	100 lb	...	1.90
Works, 1000 lb drums	100 lb	...	1.75
Works, tanks	100 lb	...	...
40° domestic, 700 lb c/l f.a.s.	...	...	.30
wts	100 lb	...	.55
Works, 1000 lb drums	100 lb	...	.75
Works, tanks	100 lb	...	1.50
Spot, drums, bbls	100 lb	...	.60
Silicofluoride, 450 lb bbls, NY	...	...	...
Sulfate, see Glauber's Salt	...	...	...
Sulfate, Anhydrous, 550 lb bbls, c/l	...	...	.03%
Sulfinde, 60% solid, 650 lb drs	...	...	.04%
lc/l wts	...	...	.03%
Drs c/l wts	...	...	.04%
Imp. 700 lb drs, NY	...	...	.04%
60% broken, 650 lb drs wts	...	...	.02
Imp., 500 lb drs, NY	...	...	.02%
30% crys, 400 lb bbls, wts	...	...	.03%
Imp., 400 lb bbls	...	...	.09%
Sulfite, crys, 400 lb bbls, wts	...	...	.10
Dedicated, 400 lb bbls	...	...	...

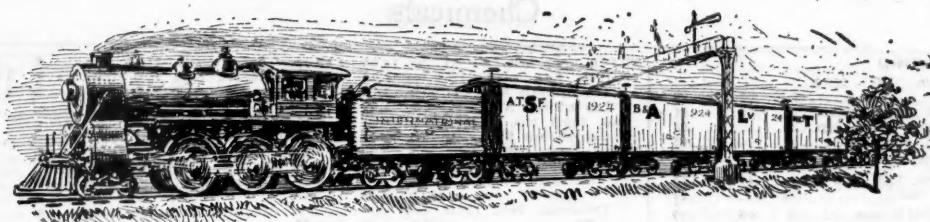


SODA ASH
CAUSTIC SODA
BICARBONATE OF SODA

MICHIGAN ALKALI COMPANY

General Sales Department
 21 East 40th Street, New York
 Works: Wyandotte, Michigan

"Distinguished for its High Test and Uniform Quality"



Satisfaction in Salt

Why does the International Salt Company work unceasingly to give satisfaction in service as well as in product?

Because it realizes that prompt deliveries of pure salt in quantity is necessary to the effectiveness of industrial processes.

When you order International Salt we meet the implied obligation of service.

INTERNATIONAL SALT COMPANY, INC.

SCRANTON

PENNSYLVANIA

NEW YORK

BUFFALO

PITTSBURG

WE SOLICIT YOUR INQUIRIES

SAMPLES ON REQUEST

DIRECT IMPORTERS OF:

Barium
Carbonate
Chloride
Nitrate

Potash
Chlorate
Permanganate

Soda
Phosphate T. B.
Prussiate

Strontium
Nitrate

Casein

Blanc Fixe

Infusorial Earth

Lithopone

Blue Vitriol

ALSO PAINT MATERIALS:

Ochers, Umbers, Iron Oxide and Mineral Blacks

ELLIS JACKSON & COMPANY 18 N. FRONT STREET PHILADELPHIA

29 Broadway
New York

Howard Building
Providence

Chemicals

SODIUM—(Continued)			SULFUR, crude bulk, c/l NY...ton			18.00	19.00	Thiobarbitid, 170 lb bbls.....b	.28	.30
Sulfocarbonate, USP 100 lb			Crude, f.o.b. mines.....ton	14.00	15.00			Thymol, USP, 35 lb tins.....b	3.35	3.60
bags.....b	.37	.39	Brimstone, 350 lb bags, c/l 100 lb	1.75	1.95			Iodide, 5 lb boxes.....b	6.75	7.00
Sulfocyanide, 400 lb bbls.....b	.45	.47	Less c/l bags NY.....100 lb	1.85	2.10			TIN, Metal Struts, NY.....100 lb	54.12	
Tungstate, crys. 100 lb bags.....b	.55		Roll, 500 lb bbls, c/l NY 100 lb	2.15	2.45			American standard, NY.....100 lb	54.00	
Domestic, bags.....b	.65		Less c/l bags NY.....100 lb	2.20	2.45			99% American, NY.....100 lb	53.50	
Solvent Naphtha, see Naphtha			Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05			Bichloride, 50% soln. 100 lb		
Sparteine Sulfate, USP, 250 lb bulk	.40	.50	Light, 100%, 260 lb bbls, 100 lb	2.60	3.15			bbls. wks.....b	.14	
Single oz. vial.....oz	.37		Rubbermakers 100%, 240 lb					Crystals, 500 lb bbls. wks.....b	.33%	
Search, rice, 140 lb bags.....b	.09	.10	bbls. NY.....100 lb	2.60	3.15			100 lb bags, wks.....b	.38	
STRONTIUM Bromide, USP, 100 lb			Commercial, 99%, 150 lb bags	1.35	1.65			Oxide, 400 lb bbls. wks.....b	.35	
bags.....b	.33		For Dusting, 99%, 100 lb	2.00	2.50			100 lb kegs wks.....b	.37	
Carb. 600 lb bbls. wks.....b	.07		bbs. NY.....100 lb	2.00	2.50			Tetrachloride, 1000 lb dra. wks. b	.33%	
100 lb kegs wks.....b	.08		Flowers, 100%, 240 lb bbls.	3.00	3.55			Tolidine, 350 lb bbls.....b	1.00	1.10
Iodide, USP, 25 lb jars.....b	4.00		NY.....100 lb	.17	.20			Toluene, 8000 gal tank cars, wks. gal	.26	
Nitrate, 600 lb bbls, wks.....b	.15		Precipitated, 125 lb bbls NY.....b	.07	.10			110 gal dra. wks.....gal	.31	
Imp., bbls, NY.....b	.11%	.13	Lac, 125 lb bbls NY.....b					Sulfate, 350 lb bbls.....b	1.10	
Sulleyate, USP, 100 lb bags.....b	.75		Sulfur Chloride, red, 700 lb dra.					Tolidine, Mixed, 900 lb dra. wks. b	.31	.33
STRYCHNINE Alkaloid, USP, crys.			wks.....b	.08	.07			Triacetin, 50 gal. dra. wks.....b	.48	
100 oz. tins.....oz	.88		150 lb chys. wks.....b	.08	.07			Tribromophenol, 100 lb cases.....b	1.00	
Alk. powd., USP.....oz	.78		Yellow, 700 lb dra. wks.....b	.05	.06			Tribromol, see Sulfonethylnmethane		
Acetate.....oz	.95		150 lb chys. wks.....b	.07	.08			Triphenylguanidine.....b	.80	
Glycerophosphate, USP.....oz	.95		Sulfur Dioxide, 100 lb cyl.....b			.08	.08%	Triphenyl Phosphate, 450 lb bbls. b	.50	.60
Hydrobromide.....oz	.95		Iodide USP, VIII, 5 lb bot. b	4.55				Tripoli, 500 lb bbls.....100 lb	2.50	3.00
Hydrochloride.....oz	.95		Sulfuric Ether, see Ether					Tungsten NY.....WO₃ unit	8.50	10.00
Hypophosphite.....oz	1.05		TALC, Italian, 220 lb bags NY...ton	35.00	40.00			Ultramarine Blue.....b	.18	
Nitrate, USP.....oz	.95		Refined white, bags.....ton	42.00	55.00			UREA, pharm. 112 lb cases.....b	.30	
Phosphate.....oz	.95		French, 220 lb bags NY.....ton	25.00	30.00			VANILLIN, USP, 5000 oz cases.....oz	.54%	
Sulfate, USP, crys. powd.....oz	.63		Refined, white, bags.....ton	32.00	45.00			Cams, 80 oz.....b	.55	
Saccharinate.....oz	2.05		Dom., crude, 100 lb bags NY...ton	10.00	15.00			Cams, 16 oz.....b	.58	
Strychnine preparations quoted bases			Refined, 100 lb bags NY.....ton	18.00	25.00			Venetian Red.....b	.05	
1000 oz lots in 1000 oz tins. Small Sizes:			Tartar Emetic, tech. 700 lb bbls. b	.26	.28			Verdigris, see Copper Subacetate		
1/2 oz vials. 50c extra; 1/4 oz vials, 35c			USP, 300 lb bbls.....b	.31	.34			Vermilion, Amer. 100 lb kegs.....b	.35	
extra; single ounce vials. 7c extra. Lots			Terpin Hydrate, USP, 100 lb kegs.....b	.60	.62			English, kegs.....b	1.80	
of 25 oz. Se higher than above			Terpineol, CP 1000 lb drums.....b	.50	.51			Veratrine Sulfate, 1 oz vial.....oz	2.00	
schedule. Lots of less than 25 oz.			Cams, 50 lb.....b	.54	.55			Hydrochloride, 1 oz vial.....oz	2.00	
10c higher per oz.			Imported, cams, 25 lb.....b	.93	1.30			Veronal, see Acid Diethylbarbituric		
Sugar Milk USP, 200 lb bbls.....b	.21	.22	Terpenyl Acetate, 25 lb cans.....b	1.85	1.85			WHITE LEAD, see lead, white.		
Second Hands, USP, bbls.....b	.21	.22	Terra Alba, No. 1, 300 lb bbls 100 lb	1.85	1.85			White Precipitate, see mercury.		
Sulfonal, see Sulfonmethane			No. 2, bbls.....100 lb	1.85	1.85			Whiting, 200 lb bags, c/l wks. ton	14.00	16.00
Sulfonethylnmethane, USP, 10 lb bbs. b	3.85	3.95	Theobromine Alk., 5 lb cans.....b	4.10				Bags, 1c/l NY.....ton	22.50	
Sulfonmethane, USP, 10 lb bbs. b	2.65	2.75	and Sod. Salicylate, 1 lb bot. b	3.42				Gilders, bags, NY.....ton	13.50	15.00
								French, bags, NY.....ton	18.00	
								English, bags, NY.....ton	23.00	
								Witch Hazel Extract, 50 gal. bbls. gal	1.20	1.38

Chemicals and Solvents
for the
RUBBER INDUSTRY

QUINOIDINE

ACETONE ACETONE OIL
ANTIMONY SULPHIDE
CRESYLIC ACID
LITHOPONE
FORMALDEHYDE
40% Vol. U. S. P.

R. W. Greeff & Co.
INCORPORATED
78 FRONT ST. NEW YORK

*Barrett
Standard*

Pure Benzol
Pure Toluol
Benzol 90%
Nitration Xylol
Commercial Xylol
Solvent Naphtha
Extraction Benzols
Denaturing Benzols
Special Fractions of
Coal Tar Light Oils

For shipment in tank cars or
one hundred gallon drums.

The *Barrett* Company
40 Rector Street  New York, N. Y.


Chemicals

XYLENE, 3° dist. range, nitration	.45	.50
110gal. drs. NY.....gal	..	..
5° dist. range, 8000gal tanks	..	..
110gal. drs. wis.....gal	..	.35
10° dist. range, drums, wis. gal	..	.40
Commercial, 110 gal. drs., wis. gal	..	.32
Tanks, wis. ....gal	..	.33
Xylidine, 9000 drs. ....db	.27	.28
YARA YARA, 100 tins.....db	.40	.42
Yohimbine Hydrochloride, 1 oz. vial. oz	1.75	2.00
ZINC, METAL, high grade, alaba	3.50	4.07
c/l NY.....100lb	..	8.50
Common Slabs, c/l NY.....100lb	7.20	7.25
Mossy, 25 lb bxs NY.....lb	..	.14
Ammonium Chloride, powd., 400 lb	..	..
bbbs. ....db	.07%	.08
Carb. tech. 150 lb kegs NY.....db	..	.23
USP, 100 lb kegs.....db	..	.33
Chloride, fused, 600 lb drs. wis. db	..	.06
Drs. c/l wis.....db	.04%	.05
Imp. drs. NY.....db	..	.05
Granulated, 500 lb bbs. wis. db	.06	.08
Imported, drs. NY.....db	.06%	.07
Solution, 50%, tanks wis. 100 lb	2.25	2.50
USP, 25 lb jars.....db	.27	.29
Cyanide, 100 lb drs.....db	..	.40
Dust, 100 lb tins wis.....db	.09%	.10
500 lb bbs. kegs, lc/l wis.....db	..	.09%
500 lb bbs. kegs, c/l wis.....db	..	.08%
Iodide, 5 lb jars.....db	..	5.28
Nitrate, 25 lb jars.....db	..	.45
Oxide, Amer. 300 lb bbs. wis. db	.08%	.08%
Bbls. c/l wis.....db	.08%	.08%
French, 300 lb bbs. wis.....db	10%	.12%
Bbl c/l wis.....db	.10	.12
Bags, c/l wis.....db	.09%	.10%
USP, 100 lb bbs. c/l.....db	..	.17
Tom lots, wis.....db	..	.15
Imported, white seal, bbs.....db	..	.12
Green seal, bbs.....db	..	.19%
USP, 100 lb bbs.....db	..	.22
Stearate, USP, 50 lb bbs.....db	..	.23
Sulfate, 400 lb bbs. wis.....db	.03%	.03%
Bbls. c/l wis.....db	..	.02%
USP, 100 lb kegs.....db	.08	.09
Sulfocarbonate, 100 lb kegs.....db	.32	.34

Oils

Castor, No. 1, 400 lb bbs.....db	.15%	.16
80 lb cases.....db	..	.16%
No. 3, bbs.....db	.15	.15%
Blown, 400 lb bbs.....db	..	.13%
China Wood, bbs., spot NY.....db	.18%	.19
8000 gal. tks. NY.....db	..	..
Mar., Apr., forward, bbs.,	..	..
China	.18%	.18%
Coast, tanks, Feb., forward.....db	.17%	.17%
Coconut Ceylon, 375 lb bbs. NY. db	.10	.10%
8000 gal. tanks, NY.....db	..	.08%
Cochin, 375 lb bbs., NY.....db	.10%	.11
Tanks, NY.....db	.09%	.09%
Manilla, tanks, P. Coast.....db	.08%	.08%
Edible, bbs., NY.....db	.11	.11%
Cod Newfoundland, 50 gal. bbs. gal	.67	.72
Tanks, NY.....db	..	..
Copra, bags.....db	.05%	.05%
Corn, ref. 375 lb bbs. NY.....db	.13	.13%
Crude, tanks milis.....db	.09%	.09%
Bbls., NY.....db	..	.12
Cottonseed, crude tks. mills.....db	.08%	.08%
P. S. Y., 100 bbl. lots NY.....db	.10	.11
White, 100 bbl. lots NP.....db	..	.13%
Winter yellow, 100 bbs., NY.....db	..	.13%
Degras, Amer. 50 gal. bbs., NY. db	.04%	.05%
English, bbs., NY.....db	..	.05
Neutral, bbs., NY.....db	.11	.14
Moolion, bbs., NY.....gal	..	.50
Greases, choice white, bbs., NY.....db	.09	.09%
Yellow.....db	.07	.07%
Brown.....db	..	.06%
House.....db	..	.06%
Bone naphtha.....db	..	.06%
Herring, Tanks, Coast.....gal	..	..
Horse, 375 lb bbs., NY.....db	..	.10
Lard, prime steam bbs.....db	.12	.12%
Compound, bbs.....db	.12%	.13

LARD OIL, Edible prime, bbs.....db	..	.14%
Off prime, bbs.....db	..	.13
Extra, bbs.....db	..	.11%
Extra No. 1, bbs.....db	..	.11%
No. 1 bbs.....db	..	.11%
No. 2 bbs.....db	..	.10%
LINSEED, raw c/l bbs., spot.....gal	.93	.94
Fire bbs., raw.....gal	..	.97
Boiled, 5 bbl. lots.....gal	..	.99
Double boiled 5 bbl. lots.....gal	..	1.00
Raw, lc/l bbs.....gal	..	.97
Tanks.....gal	..	.88
Feb.-Apr., c/l bbs.....gal	..	.94
May-Aug., c/l bbs.....gal	..	.94
Imported, bbs., NY.....gal	..	..
Tanks, NY.....gal	..	..
Menhaden, crude bbs. wis.....gal	..	..
Crude, tanks, Balt.....gal	.47%	.50
Light strained, tanks.....gal	..	..
Light strained, bbs., NY.....gal	.65	.67
Yellow bleached, bbs., NY.....gal	.68	.69
Extra bleached, bbs., NY.....gal	.70	.72
Blown, bbs., NY.....gal	.75	.77
Nestafort, 20° c.t. bbs., NY.....db	..	.17
Pure, bbs., NY.....db	..	.14%
Extra, bbs., NY.....db	..	.11%
Oleo Oil, No. 1, bbs., NY.....db	..	.14%
No. 2, bbs., NY.....db	..	.11%
No. 3, bbs., NY.....db	..	.10%
OLIVE, denatured bbs., NY.....gal	..	1.25
Edible, bbs., NY.....gal	2.00	2.25
Foots, bbs., NY.....db	..	.10%
Shipment.....db	.10%	.10%
Palm Lager, 1500 lb casks.....db	.08	.08%
Niger casks.....db	.07%	.07%
Bonny old Calabar, casks.....db	..	..
Palm Kernel, 1500 lb casks NY.....db	.09	.09%
Peanut, refined bbs., NY.....db	..	.16
Crude, mills buyers' tks.....db	..	..
Crude, bbs., NY.....db	..	..
Perilla, bbs., NY.....gal	..	.14%
Poppyseed, bbs., NY.....gal	2.25	2.50



CAMPBELL CHEMICALS

Yellow Prussiate of Soda

Prime Crystals

Purchased from
HENRY W. PEABODY & CO.

Brand not stated

Immediate Delivery

C.W. CAMPBELL CO.
IMPORTERS & EXPORTERS

11 CLIFF STREET
NEW YORK, N.Y.-U.S.A.

TELEPHONE
BERMAN 1151
CABLE ADDRESS
CAMPBELL NEW YORK

CODES
A.B.C. OF CHEMICALS
MARCONI-COMMERCIAL
BENTLEY-LIBRARY

HF & G

Nickel Anodes Nickel Salts

**The HARSHAW, FULLER
& GOODWIN CO.**

Hanna Building, Cleveland

New York
Philadelphia
Chicago

Cincinnati
St. Louis
Los Angeles

Oils and Fertilizers

Rapeseed, refined bbls, NY.....gal	.90	: .92
Blown, bbls, NY, 8 lbs.....gal	...	: 1.00
Red Oil, distilled, bbls.....lb	.08%	: .09%
Saponified, bbls.....lb	.09%	: .09%
Tanks.....lb	.08	: .08%
Salmon, 8000 gal. tks. Coast.....gal	...	: ...
Sesame, domestic edible bbls.....lb	.13	: .13%
Sod Oil, bbls, NY.....gal	...	: .45
SOYA BEAN, crude tks. Coast.....lb	.10%	: .10%
Crude, Tks., D.P., NY.....lb	...	: ...
Crude, bbls, NY.....lb	.12	: .12%
Sperm, 35° c.t. bldh. bbls, NY.gal	...	: .89
45° cold test, bldh. bbls, NY.gal	...	: .84
STEARIC ACID, s.p. 200 lb bags.....lb	.12	: .12%
Double pressed, bags.....lb	.12%	: .12%
Double pressed, bgs., saponified.....lb	.12%	: .12%
Triple pressed, bgs., distilled.....lb	.13%	: .13%
Triple pressed, bgs., saponified.....lb	.13%	: .13%
Stearine, oleo, bbls.....lb	.09%	: .09%
Tallow, edible, tierces.....lb	...	: .10%
City, extra, loose.....lb	...	: .08
Tallow Oil, acidless tks. NY.....lb	...	: .09%
Bldh., c/l NY.....lb	...	: .11%
Walnut, crude bbls, NY.....lb	---	: ---
Whale, nat. winter bbls, NY.....gal	...	: .77
Bldh. winter bbls, NY.....gal	...	: .79
Extra Bldh. bbls, NY.....gal	...	: .81
Crude, No. 1, tanks Coast.....gal	...	: ...
Crude, No. 2, tanks Coast.....gal	...	: ...
Crude, No. 3, tanks Coast.....gal	...	: ...

Fertilizer Materials

Ammon. Sulf., bulk wks.....100 lb	2.90	: 3.00
Double, bgs. f.a.s. NY.....100 lb	2.85	: 2.95
Single bags, wks.....100 lb	...	: 3.15
Rlood, dried f.o.b. NY.....unit	4.10	: 4.30
Bone, 3 & 50 ground steamed.....ton	23.50	: 25.00
Bav. Chicago.....ton	...	: 20.00

Cyanamide wks.....unit	2.30	: 2.25
Fish Scrap, dried wks.....unit	5.00	: .10
Acid, Bulk, 7 & 3 1/2, wks.....unit	3.75	: .50
Ground Fish, Balt.....unit	5.00	: .10
NITRATE SODA, NY.....100 lb	2.49	: 2.52
Phosphate Rock, f.a.b. mines, Florida pebble, 68-75%.....ton	2.35	: 3.50
Tennessee, 73%.....ton	...	: 5.50
Phosphate Acid, 16% Bulk wks.....ton	7.50	: 8.00
Potassium Muriate, 80%.....unit	...	: .68
Sulfate.....unit	...	: .93
Steamed Bone.....ton	31.00	: 32.00
Tankage, ground, NY.....unit	3.55	: .10
High grade f.a.b. Chicago.....unit	3.00	: .10

Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.....gal	...	: 1.62
Wood Turpentine, stm. dist'd, bbls.gal	...	: .90
Destructive distilled, bbls.....gal	.65	: .68
Pine Oil, stm. dist'd, bbls.....gal	...	: .63
Pitch, prime.....bbl	...	: 6.00
Resins, (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb)		
B.....280 lb	...	: 5.85
D.....280 lb	...	: 5.85
E.....280 lb	...	: 5.85
F.....280 lb	...	: 5.85
G.....280 lb	...	: 5.85
H.....280 lb	...	: 5.85
I.....280 lb	...	: 5.85
K.....280 lb	...	: 6.00
M.....280 lb	...	: 6.10
N.....280 lb	...	: 6.50
WG.....280 lb	...	: 7.65
WW.....280 lb	...	: 7.75

Rosin Oil, first run, 50 gal. bbls.gal	...	: .42
Second run, bbls.....gal	...	: .46
Tar, kiln-burnt.....bbl	...	: 11.00
Retort.....bbl	...	: 11.00

Woods

Barwood, chips.....lb	.04%	: .05
Camwood, chips.....lb	.09	: .13
Diri Diri, pods 100-200 lb bags.....ton	40.00	: 42.00
Fustic, sticks.....ton	30.00	: 35.00
Chips.....lb	.04	: .06
Hemlock, bark.....ton	...	: 20.00
Hyperic, chips.....lb	.06%	: .07
LOGWOOD, sticks.....ton	28.00	: 30.00
Chips 150 lb bags.....lb	.02%	: .03
Mangrove bark, African.....ton	24.00	: 24.00
Bark, South American.....ton	25.00	: 30.00
Myrobalsams, 150 lb bags J1.....ton	...	: 33.00
B1.....ton	...	: 35.00
J2.....ton	...	: 27.00
Nutgalls, see Crude Drugs.		
Oak bark, whole.....ton	30.00	: 22.00
Ground.....ton	...	: 25.00
Quercitron bark, rough.....ton	...	: 18.00
Ground.....ton	20.00	: 25.00
Sumac, Sicily, 160 lb bags.....ton	90.00	: 95.00
Virginia, 150 lb bags.....ton	40.00	: 45.00
Valonia Caps, 28-33% tan.....ton	35.00	: 38.00
Beard, 40% tan, 150 lb bags.....ton	50.00	: 52.00
Wattle bark, 150 lb bgs.....ton	...	: 35.00

Extracts

Range of prices includes quality range for large quantity.

Annetic, 500.....lb	.36	: .39
Archil, double 600 lb bbls.....lb	.14	: .16
Triple, 600 lb bbls.....lb	.15	: .17
Cocac., 600 lb bbls.....lb	.16	: .18

W. F. GEORGE
CHEMICALS, INC.General Offices:
42 Broadway, New York City
Telephone Broad 5428Soda Ash
Caustic Soda
Sodium Bicarbonate
Glauber's Salt
Sal Soda
Sodium Silicate
Tri Sodium Phosphate

WAREHOUSES:

New York, N. Y. Syracuse, N. Y. Albany, N. Y.
Brooklyn, N. Y. Utica, N. Y. Newark, N. J.CHEMICAL
SEABOARD
COMPANY

Methanol

(Wood Alcohol)

Acetic Acid

(All Grades)

Acetate of Lime

Seaboard Chemical Co.

30 CHURCH STREET

NEW YORK

Telephone Cortland 1027-5519 Cables Seaboard, N. Y.

Tannins and Dyestuffs

Chestnut, clarified, 25% tks. wks. lb.	.02	.02%
Bbls., wks.	.02%	.02%
Powd., 60% 100 lb bbls. wks. lb.	.05%	.05%
Decolorized, bbls., wks.	.08	.09
Cudbear, English	.16	.17
Cutch, Bangoon, 100 lb bales	.13	.16
Borneo, solid, 100 lb bales	.04%	.05%
Liquid, 450 lb bbls.	.10	.11
Tablets, 120 lb boxes	.13	.14
Flavine	.90	.95
Partic, solid 50 lb boxes	.20	.22
Crystals, 100 lb boxes	..	.20
Liquid, 51°, 600 lb bbls.	.10	.13
Gall extract	.16	.18
Gambier, 25% liq. 450 lb bbls.	.08%	.09%
Common, 200 lb cases	.10%	.11
Singapore cubes, 150 lb bags	.18	.19
HEMATINE, Paste, 500 lb bbls.	.11	.12
Crystals, 400 lb bbls.	.14	.20
Hemlock, 25% 600 lb bbls. wks. lb.	.03%	.03%
Hyperic, 51°, 600 lb bbls.	.15	.16
Indigo, Madras bbls.	.85	.90
Manila, bbls.	..	1.30
Larch, 25%, 600 lb bbls., wks. lb.	.03%	.03%
Powd. 100 lb bags, wks.	.07%	.08
Logwood, 51°, 600 lb bbls.	..	.10%
Lower grades	.07	.09
Solid, 50 lb boxes	.09	.13
Madder, Dutch	.38	.36
Managrove, 55% 400 lb bbls.	.04%	.05
Myrobalan, 25% liquid bbls.	.04	.05
50% solid, 50 lb boxes	.04%	.05
Oak, tanks wks.	.04	.04%
23-25% liq. 600 lb bbls. wks. lb.	.05	.05%

Osage Orange, 51° liquid	.07	.08
Powd. 100 lb bags	.14	.15
Persian Berries	.27	.30
QUEBRACHO, 25% liquid tks. lb.	.03	.03%
450 lb bbls.	.03%	.04
35% bleaching, 450 lb bbls.	.04%	.05%
Solid 65% 100 lb bales	.04%	.04%
Clarified bales	..	.05
Quercitron, 51° 450 lb bbls.	.06%	.07%
Powdered, 100 lb boxes	.09	.13
Spruce, 25% liquid tanks wks. lb.	.01	.01%
Powd. 50% 100 lb bags wks. lb.	.02	.02%
Sumac, liquid 450 lb bbls.	.08	.09
Stainless, 600 lb bbls.	.10	.11

DYE'S SUNDRIES

Albumen, technical, egg 200 lb cs. lb.	..	1.25
Blood, domestic, 100 lb drs.	..	.45
Spray Yolk 150 lb cs.	.45	.65
British Gum, 140 lb bags c/l 100 lb	3.94	4.09
Bags, lc/l	4.09	4.19
Dextrin, corn 140 lb bags c/l 100 lb	..	3.59
Bags, lc/l	..	3.69
Yellow, bags c/l	..	3.64
Potato 220 lb bags c/l	..	.07%
Bags, lc/l	..	.07%
Yellow, 220 lb bags	..	.08
Tapioca, 200 lb bags, lc/l	.09	.10
Prussian blue	.60	.62
Sago Flour, 150 lb bags	.04%	.05
STARCH, powd. 140 lb bgs. c/l 100 lb	..	3.17
Bags, lc/l	..	3.27
Pearl, 140 lb bags c/l	3.07	3.17
Potato, domestic, 200 lb bags	.05	.05%
Imported, bags duty paid	.06	.06%
Tapioca Flour, high grade bags	..	.27
Medium grade bags	.05%	.06
Low grade, bags	.04	.04%
Turkey Red Oil, bbls.	.11	.12
Yolk Oil, bbls.	..	.35

Crude Drugs

Accrodes Gum, yel.	.18	.20
ACONITE Leaves, bales	.25	.27
Aconite Root, USP, bags	.48	.50
Agar Agar, 1, 200 lb bales	1.48	1.50
No. 2, bales	..	1.45
No. 3, bales	..	1.40
Agaric, white, cases	..	4.00
Almonds, bitter bags lvs.	.32	.35
Sweet, bags	.45	.48
Meal, tins, boxes	.28	.30
Aletris Root, bags	.58	.63
Alkanet Root, bags	.06	.06%
Aloes, Barbadoes, 120 lb bbls.	.65	.70
Cape, 400 lb cases	.09	.10
Curacao, 100 lb cases	.11%	.12
Socotrine, whole 100 lb cs.	.30	.33
Althea Root, cut cases	.23	.25
Whole bags	.09	.10
Ambergris, black boxes	..	8.00
Grey, boxes	..	28.00
Ammoniac, tears, bags	.85	.90
Angelica Root, dom. bags	.14	.15
Angostura Bark, bags	.08	.10
Anise, Levant bags	.15	.16
Russian, bags	.14	.15
Star, cases	..	..
Spanish, bags	.15%	.16
Annatto Seed, 200 lb bags	.20	.22
ARABIC GUM,		
White, No. 1, 200 lb bags	.23	.25
Seconds, 250 lb bags	.24	.26
Sorts, amber, 200 lb bags, bis. lb.	.12%	.13
Powd., USP, 300 lb bbls.	.19	.20
Areca Nuts, 150 lb bags	..	.09
Powd., 200 lb bbls.	..	.11
Arnica Flowers, bales	.11	.12
Root, Bags	.28	.35
Arrowroot, Amer., powd. bbls.	.06%	.09%
St. Vincent, powd. bbls.	.16	.16%
Asafoetida, USP, 250 lb cases	.20	.21
Powd. 50 lb bxs.	.46	.47
BALM GILEAD BUDS, bags	.50	.55
Balmory Herb, bales	..	.14

CHURCH & DWIGHT Co.

80 Maiden Lane
New York

Bicarbonate of Soda
Sal Soda
Monohydrate of Soda

GEORGE UHE

BROKERS

NEW YORK

H. R. Lathrop & Co., Inc.

110-6 Beekman Street
NEW YORK

Rhubarb Root

Sole Agents U. S. A.

KITAGUMI JAPAN WAX

Crude Drugs

BALSAMS			Cannabis, true imp. bags.....			Cloves, Zanzibar, 135 lb bales.....				
Copaiba, Para, 80 lb cs.....	lb	.29	.31	American (no assay) bales.....	lb	.80	.85	Amboyas, bales.....	lb	... : .38
South American, 80 lb cs.....	lb	.33	.35	USP.....	lb	1.70	1.85	Penang, bales.....	lb	... : .45
Fir Canaga, cane, gal.....	gal	12.50	12.80	Cantharides, Chinese cases.....	lb	1.05	1.10	Cochineal, USP, boxes.....	lb	... : .37
Oregon, bbis., cane.....	gal	1.40	1.45	Powdered, boxes.....	lb	1.20	1.25	Coca Leaves, Huancuco bags.....	lb	... : .55
Puru, 120 lb cases.....	lb	2.00	2.10	Cantharides, Russian, cases.....	lb	1.10	1.20	Truxillo, bags.....	lb	... : .12
Tolu, 90 lb cases.....	lb	2.00	2.25	Powdered, boxes.....	lb	1.20	1.25	Cohosh Root, Black bags.....	lb	... : .12
Bamboo Briar Root, bags.....	lb	.05 1/2	.06	Caraway Seed, African, bags.....	lb	.25	.26	Blue, bags.....	lb	... : .14
Raspberry Bark, tree bales.....	lb	.14	.16	Dutch, 110 lb bags.....	lb	.26	.27	Colchicum Root, bags.....	lb	... : .08
Root, bags.....	lb	.45	.48	Cardamom bleach cases.....	lb	1.60	2.00	Seed, bags.....	lb	... : .10
Bayberry Bark, bales.....	lb	.11	.12	Decorticated, cases.....	lb	1.65	1.75	Colombo Root, whole bags.....	lb	... : .02 1/2
Wax, bbis.....	lb	.26	.27	Green, grinding, bags.....	lb	1.20	1.30	Colocynthis, apples, cases, bales.....	lb	... : .17
Belladonna Leaves, bales.....	lb	.28	.30	Carnauba Wax, Flor. bags.....	lb	.53	.53	Pulp, USP, bales.....	lb	... : .33
Root, bags.....	lb	.12 1/2	.13	No. 1 N Country bags.....	lb	.40	.42	Coltsfoot Leaves, bags.....	lb	... : .06
Bees Wax, white bbis.....	lb	.36	.38	No. 2 N Country bags.....	lb	.24	.26	Comfrey Root, bags.....	lb	... : .13
Yellow, refined, bbis.....	lb	.21 1/2	.22	No. 3 Chalky, bags.....	lb	.18 1/2	.19 1/2	Condurango Bark, bales.....	lb	... : .20
Crude, bags.....	lb	.23	.24	Cascara Amara, 150 lb bales.....	lb	.25	.27	Conium Seeds, bags.....	lb	... : .16
Benzoin Gum, Stam, boxes.....	lb	1.30	1.35	Cascara Sagrada, bales, Old.....	lb	.28	.30	Copaiba Balsam Para, see Balsams		
Sumatra, 80 lb boxes.....	lb	.27	.28	New.....	lb	.27	.29	Copal Gum.....	lb	... : .13
Eberbia Aquifolium Root, bags.....	lb	.14	.15	Cascarilla Bark, quills bales.....	lb	.36	.40	Coriander Seed, Bombay bags.....	lb	... : .08
Beth Root, bags.....	lb	.30	.32	Siftings, bbis.....	lb	.20	.25	Mogadora, bags.....	lb	... : .11
Blackhaw Bark, root, bales.....	lb	.39	.40	Cassia Ruds, 60 lb cases.....	lb	.11 1/2	.12	Morocco, bags.....	lb	... : .11
Tree, bales.....	lb	.23	.25	China, Whole Hells, cases.....	lb	.10	.10 1/2	Bleached, bags.....	lb	... : .15
Blood Root, bags.....	lb	.15	.16	Salmon, assort. bales.....	lb	.24	.29	Corn Silk, bales.....	lb	... : .05 1/2
Blueflag Root, bags.....	lb	.23	.25	Cassia Fistula, baskets.....	lb	.10	.11	Cotton Root Bark, bales.....	lb	... : .14
Bolide Leaves, bales.....	lb	.20	.21	Castor Beans, bags.....	lb	.03	.03 1/2	Cramp Bark, so-called bales.....	lb	... : .08
Bonsett Herb, bales.....	lb	.08	.11	Castoreum, 1 lb bot.....	lb	4.00	4.50	True, bags.....	lb	... : .40
Borage Flowers, bales.....	lb	.18	.20	Catechu Gum, bags.....	lb	.09	.10	Cranesbill Root, bags.....	lb	... : .10
Bryonia Root, bags.....	lb	.09	.10	Catnip Herb, bales.....	lb	.15	.17	CUBEB BERRIES, XX bags.....	lb	... : .70
BUCHU LEAVES, short, 250 lb				Celery Seed, 220 lb bags.....	lb	.33	.35	Powdered, boxes.....	lb	... : .75
bales.....	lb	.78	.81	Ceruin Wax, white bags.....	lb	.09	.10	Culvers Root, bags.....	lb	... : .32
Less, bales.....	lb	.87	.89	Yellow, 200 lb bags.....	lb	.08	.09	Cumin Seed, Levant bags.....	lb	... : .27
Long, bales.....	lb	...	...	CHAMOMILE FLOWERS, Roman				Cuticleth Bone, Trieste, straps.....	lb	... : .27
Buckhorn Bark, bags.....	lb	.06	.07	bales.....	lb	.85	.90	Jewellers, large, straps.....	lb	... : .13 1/2
Burdock Root, bags.....	lb	.16	.18	Hung. cases bales.....	lb	.08	.09	Small, straps.....	lb	... : .55
Burgundy Pitch, dom. 110 lb stands	lb	...	...	Charcoal Willow, powd. bbis.....	lb	.06	.06 1/2	French, straps.....	lb	... : .15
Gross for net.....	lb	...	...	Wood, powd. bbis.....	lb	.04	.05	Powdered, boxes.....	lb	... : .13
Calabar Beans, bags.....	lb	.12	.14	Chestnut Bark, bags.....	lb	.07	.08	Broken, boxes.....	lb	... : .07
Calamus Root, bleached cases.....	lb	.35	.38	Herb, bales.....	lb	.05	.06 1/2	Damar Gum, 136 lb cases.....	lb	... : .24
Unbleached, bags.....	lb	.07 1/2	.08	Chicle Gum, bags.....	lb	.75	1.00	Damiana Leaves, bales.....	lb	... : .15
Calendula Petals, imp. bales.....	lb	...	.30	Chiretta, bales.....	lb	.10	.12	Pandellion Root, imp., bags.....	lb	... : .35
Calisaya Bark, bales, powd.....	lb	.27	.30	Cinchona Bark, red quills bales.....	lb	.45	.50	Deer Tongue Leaves, bales.....	lb	... : .09
Camphor, see Chemicals				Broken, bales, East Indian.....	lb	.26	.28	Digitalis Leaves, bales.....	lb	... : .07
Canary Seed, Morocco bags.....	lb	...	.06	Ceylon, Broken, bales.....	lb	.15	.20	Dill Seed, bags.....	lb	... : .08 1/2
South American, bags.....	lb	.05 1/2	.06	Cinnamon, Ceylon, bales.....	lb	.22	.22 1/2			
Candellila Wax, bags.....	lb	.25	.25	Civet, Abyssin horns.....	lb	2.75	3.75			
Camella Alba Bark, bales.....	lb	.51	.52	Clover Tops, bags.....	lb	.25	.27			

First Tyrolese Pine Oil Distillery
UNTERWEGER BROTHERS
 Thal-Aseling, Tyrol, Austria

Oil Pine Pumilio U. S. P.
Oil Savin U. S. P.
Oil Juniper, twice rectified U.S.P.
Tyrolat U.S.P.

DELPHI PRODUCTS

INCORPORATED

Chicago
Main 4762

New York
Beekman 1514

Chemical Works "Naarden" Ltd.

**PHARMACEUTICAL
PRODUCTS**

NAARDEN (Holland)

Cable Address: CHEMISCHE-BUSSUM
P. B. 2 Bussum (Holland)

STERLING BRAND
BORAX
 AND
BORACIC ACID

Fifteen years on the Market
and never a complaint~

STERLING BORAX COMPANY
 HARRIS TRUST BUILDING
 CHICAGO, U.S.A.

**Compound
Solution Cresol
U.S.P. IX**

BAIRD & McGUIRE, Inc.
 Holbrook, Mass. P. O. Box 473

New York Representative
JAYNE & SIDEBOTTOM, INC. 17 Battery Place

Crude Drugs

Dogwood Bark, Jamaica bags....lb	.10	.11	Grindella Robusta Herb, bales....lb	.07	.07%	LADY SLIPPER ROOT, bags....lb	.51	.65
Flowers, 'bales	...	.15	Guaiac Gum, 80 lb cases....lb	.27	.29	Larkspur Seed, bags	1.80	1.35
Dogwood Root, USP, cut bags....lb	.13	.14	Guarana, tins, cases....lb	.65	.75	Laurel Leaves, bales	.04%	.05
Dragon's Blood, mass cases....lb	.45	.50	GUM, see Arabic Gum, etc.	...	...	Lavender Flowers, ordinary	.30	.33
Seeds, boxes	1.15	1.25	HELLEBORE ROOT,	...	...	Selected	.35	.38
ECHINACEA ROOT, bags....lb	.28	.30	Black, bbls	.08	.10	Leeches, tubs	Per 100	6.00
Elecampane Root, bags....lb	.09	.10	Powdered	.15	.17	Lemon Peel, bags	.09	.10
Elder Flowers, bags....lb	.14	.16	White, Powd. 250 lb bbls....lb	.15	.16	Licorice Root, Russian whole....lb	.07%	.08
Kiwi Gum, 80 lb cases....lb	.10	.11	Helonias Root, (unknown false)	...	...	Spanish, natural bales....lb	.09	.09%
Kim Bark, select 5 lb bundles cases lb	.27	.28	bag	.88	.90	Powdered, bbls	.09	.09%
Grinding, bags	.10	.13	Hemp Seed, Manchurian bags....lb	.05	.05%	Selected, 2 & 5 lb bundles....lb	.16	.20
Powdered, bbls	.23	.24	Chilian, bags	...	...	Cuttings, 125 lb bags....lb	.07	.07%
ERGOT, 150-200 lb bags	.35	.37	Henbane Leaves, bales, USP....lb	.36	.38	Greek, 150 lb bales	.03	.03%
Eucalyptus Leaves, bales....lb	...	.05	No assay	.28	.32	Life Everlasting Herbs, bales....lb	.05	.06
Euphorbia Pilulifera Herb, bags....lb	.15	.17	Henna Leaves, bales	.11	.12	Lime Juice, clarified bbls....gal	.50	.60
Euphorbium Gum, cases....lb	...	.32	Powdered	.14	.15	Linden Flowers, with leaves, bales lb	.14	.16
Powdered, boxes	...	.40	Honey, Calif., 120 lb cases....lb	.11%	.12	Without leaves, bales....lb	.21	.23
Fennel Seed, French, bags....lb	.15	.16	Hops, N. Y. prime bales....lb	.23	.25	Liverwort Leaves, bales....lb	.20	.22
German, bags	.18	.19	Pacific Coast prime bales....lb	.20	.23	Lobelia Herb, bales	.27	.28
Indian, bags	.12	.12%	Horehound Herb, bales	.09	.10	Lobelia Seed, bags	.62	.65
Flax Seed, whole 180 lb bbls....ea	13.00	13.50	Horsetail Rush, bags	...	.15	Lovage Root, Imported, bags....lb	.20	.22
Ground, 180 lb bbls	.07%	.08	India Gum, see Karaya	...	...	Lupulin, boxes	1.40	1.50
Foenugreek Seed, 200 lb bags....lb	.05%	.06	INSECT FLOWERS, open whole	...	...	Domestic	1.30	1.40
Fish Berries, 100-125 lb bags....lb	.03%	.05%	bales	...	...	Lycopodium, 88 lb cs....lb	.35	.37
Fringe Tree Bark, bags....lb	.19	.20	Clove whole, bales....lb	...	...	MACE, Siam, No. 1 cases....lb	.62	.63
GALANGAL ROOT, bags....lb	.08	.09	Powdered, pure 200 lb bbls....lb	.66	.68	Banda, No. 1 cases....lb	.65	.67
Galbanum Gum, cans....lb	.80	.95	Flowers and stems, 50 p. c.	...	...	Batavia, No. 2 cases....lb	.58	.59
Gambier Gum, bags....lb	.09	.09%	200 lb bbls	.38	.40	West Indian, cases....lb	.58	.60
Gamboge Gum, 160 lb cases....lb	.85	.90	Ipecac Root, Cartagena, bags....lb	1.95	2.00	Malta Flowers, blue bales....lb	.27	.30
Powdered, cases	.90	1.00	Powdered, 220 lb bbls. boxes lb	2.10	2.20	Black, bales	.65	.7%
Gelsemium Root, bags....lb	.11	.11%	Rio Whole, bags	1.85	1.90	Manna, large flake cases....lb	.78	.80
Gentian Root, bags....lb	.08%	.09	Powdered, 200 lb bbls. bxs lb	2.10	2.20	Small flake, cases....lb	.38	.40
Ginger, African, bags....lb	.17	.18	Istinglass, American, 130 lb cs....lb	.75	.85	Sorta, cases	.27	.30
Jamaica, grinding, bags bbls....lb	.34	.38	Russian (Beluga) bxs. ctms....lb	4.50	5.50	Mandrake Root, bags	.20	.22
Japan, bags	.17	.17%	JAGORANDI LEAVES, bales....lb	.16	.18	Mastic Gum, 120 lb cases....lb	.60	.62
Cochin, ABC & lemon, bags....lb	.24	.26	Jalap Root, whole, 150 lb bags....lb	.38	.40	Mexerone Bark, bags	.11	.12
Ginseng Root, cultivated, bags....lb	8.00	10.00	Powdered, USP, 250 lb bbls....lb	.40	.42	Matteo Leaves, bales	.20	.22
Northwestern Wild, bags....lb	13.00	14.00	Japan Wax, white bags....lb	.20	.21	Marjoram Leaves, German bales....lb	.16	.17
Southern Wild, bags....lb	10.00	12.00	Job's Tears, white bags....lb	.25	.30	French, bales	.12%	.13
Golden Seal Root, bags....lb	3.45	3.55	Juniper Berries, 125 lb bags....lb	.02%	.03%	Millet Seed, dom. yellow bags....lb	.03%	.05
Powdered, boxes	8.70	8.75	KAMALA, boxes	1.35	1.45	Mountain Wax, crude bags....lb	.04	.04%
Grains of Paradise, bags....lb	.12	.14	Karaya Gum, powdered, bbls....lb	.15	.20	Bleached	...	...
			Kara Kava Root, bags....lb	.16	.17	Moss, Iceland bales....lb	.08	.09
			Kino Gum, black cases....lb	.50	.55	Irish, bleached, bales....lb	.09	.10
			Kola Nut, 150 lb bags....lb	.05	.06	Mullein Flowers, tins	1.15	1.20
			Koussou Flowers, bags....lb	...	3.00			

Beeswax

(Refined and Bleached)

(Since '73)

M.L. BARRETT & CO. Merchants

Essential Oils Fine Chemicals Synthetics Colors

233 WEST LAKE STREET - CHICAGO, ILL.

Established 1873

Cables: Laserno

U. S. P.
OIL WINTERGREEN
OIL SWEET BIRCH
OIL SASSAFRAS
ROOTS
HERBS
ESSENTIAL OILS

M. E. Proffitt

JOHNSON CITY

TENN.

CENTRAL DYESTUFF & CHEMICAL
COMPANY

BENZIDINE

DYESTUFF AND INTERMEDIATE
MANUFACTURERS

OFFICE AND WORKS

NEWARK, N. J.

We offer for PROMPT delivery

QUICKSILVER
(IN ORIGINAL BOTTLES)

ALL MERCURIAL SALTS
AMMONIUM PERSULPHATE 98% PURE
ROCHELLE SALTS
STRYCHNINE
FINE CHEMICALS, etc.

MAY & BAKER, LTD.

Manufacturing Chemists and Exporters

BATTERSEA, LONDON

ENGLAND

Cable Address: BISMUTH, LONDON

Crude Drugs

Musk, pods, Cabardine, time.....	16.00	17.00	Patchouli Leaves, bales.....	.22	.25	Rosemary Flowers, cases bales....	.25	.30
Tonquin.....	22.00	25.00	Pepper, black Sing. bags.....	.11	.11½	Rose Petals, pale.....	.22	.25
Grain Cab.....	25.00	26.00	White, bags.....	.14	.14½	Red.....	.65	.70
Tonquin.....	35.00	38.00	Peppers, red Mombasa, bags.....	.13	.16	Rue Herb, bales.....	.30	.35
Synthetic, see Chemicals.....			Cherries, bags.....	.14	.15	SABADILLA SEED, bags.....	.15	.16
Musk Root, Russian bags.....			Bombay, bags.....	.11½	.13	Powder, bbls.....	.16	.17
Mustard Seed, Earl brown bags.....	.08½	.09	Japan, bags.....	.24	.26	Saffron Flowers, Amer. bales.....	.78	.80
Bombay, brown.....	.08½	.09	Pennyroyal Herb, bales.....	.08	.12	Valencia, 1 lb cans.....	30.50	32.00
California, brown.....	.08½	.09	Peppermint Leaves, imp. bales.....	.35	.38	Sage, Dalmatian bales.....	.06	.06½
Yellow.....	.08	.09	Cuts, bales.....	.25	.28	Greek, bales.....	.04½	.05½
Chinese yellow.....	.04	.04½	Domestic leaf.....	.32	.34	Spanish, bales.....	.03	.03½
English, yellow.....	.08½	.09	Peru Balsam, see Balsams.....			Sandalwood, chips bags.....	.38	.39
Dutch, yellow.....	.08	.08½	Pichl Leaves, bags.....	.23	.25	Ground, bags.....	.35	.36
Danish, yellow.....	.08½	.09	Pimento, select bags.....	.05½	.05½	Sandarac Gum, 300 lb bbls.....	.30	.32
Myrrh Gum, select 200 lb cs.....	.35	.37	Pink Root, true bags.....		1.20	Sarsaparilla Root Honduras, bales.....	.61	.65
Scotch, cases.....	.33	.35	Pitch, Burgundy, see Burgundy Pitch.....			Mexican, bales.....	.30	.32
NUTGALLS, Chinese, bags.....	.17	.18	Pleurisy Root, bags.....	.22	.22	Sassafras Bark, ordinary bales.....	.13	.15
Alcornoque, bags.....	.14	.15	Plantain Leaves, bales.....	.15	.15	Select, bales.....	.32	.34
Nutmegs, 110s cases.....	.36	.38	Poke Berries, bags.....	.15	.15	Savory Leaves, bales.....	.08½	.09½
75s, 80s cases.....	.39	.41	Poke Root, bags.....	.30	.30	Saw Palmetto Berries, bags.....	.10	.11
Nix Veronica Buttons, bags.....	.05	.06	Pomegranate Bark, of root bags.....	.30	.30	Scammony Resin, boxes.....	1.40	1.60
Powdered, 200 lb bbls.....	.08½	.09	Of Fruit, bags.....	.30	.30	Scammony Root, bags.....	.06½	.07
OAK BARK, red bags.....	.05	.06	Of tree.....	.30	.30	Senega Root, bags.....	.63	.65
White, bags.....	.06	.07	Poppy Flowers, red bags.....	.25	.27	SENNA, Alex. 150 lb cases.....	.24	.26
Oilbanum Gum, sift 280 lb cases.....	.09½	.10	Poppy Seed, Dutch, bags.....	.09½	.10	Half Leaf, 350 lb bales.....	.17	.18
Tears, 280 lb cases.....	.11	.12	German, bags.....	.10½	.10½	Siftings, 400 lb bales.....	.10½	.12
No. 1, all white 280 lb cases.....	.21	.22	Turkish, bags.....	.06	.08	Powdered, 200 lb bbls.....	.12	.14
Opium, gum, USP, cases.....	9.00	10.00	Blue Indian, bags.....	.08	.08½	Tinnevely, job, 350 lb bbls.....	.11	.16
Granular, cans.....	10.00	11.00	White Indian, bags.....	.07	.07½	Grindings, 350 lb bales.....	.07	.09
Powdered, USP, cans.....	10.00	11.00	Prickly Ash Bark Southern, bags.....	.14	.14½	Powdered, 200 lb bbls.....	.09	.10
Orange Flowers, cases.....	.50	1.00	Northern, bags.....	.16	.17	Pods, 350 lb bales.....	.12	.14
Orange Peel, bitter bags.....	.07½	.07½	Prickly Ash Berries, bags.....	.17	.17	Serpentaria Root, bags.....	.80	.85
Sweet, bags.....	.08	.08½	Prince's Pine, bales.....	.40	.42	Shellac, D.C., bags.....	.80	.81
Ceris Root Florentine bold bags.....	.07	.08	Pulsatilla Herb, bags.....	.20	.23	V.S.O., bags.....	.80	.81
Powdered, 200 lb bbls.....	.11½	.12	Pumpkin Seed, bags.....	.14	.16	Diamond I, bags.....	.79	.81
Verona, bags.....	.05	.06	QUASSIA CHIPS, bags.....	.07	.08	Superfine, Orange, bags.....	.61	.62
Powdered, 200 lb bbls.....	.07½	.08	Queen of the Meadow Herb, bags.....	.05	.06	Fine, bags.....	.60	.61
Fingers, cases.....	.58	.60	Quince Seed, bags.....	.06½	.07	T.N., bags.....	.57	.58
Ozokerite Wax, brown hard bags.....	.22	.24	RAPE SEED, South Amer. bags.....	.05½	.07	Garnet, A. C.....	.56	.57
Green, hard bags.....	.25	.26	Dutch, bags.....	.05½	.06	Button, bags.....	.78	.74
Refined, yellow bags.....			Japanese, small, bags.....	.56	.60	Bleached, ground, bbls.....	.55	.56
PAPRIKA, bags.....	.17	.22	Raspberries, dried boxes.....	.17	.19	Bone dry, bbls.....	.68	.70
Hungarian.....	.27	.27	Red Saunders.....		.08½	Stimulans Bark, bales.....	.09	.10
Pareira Brava Root, bags.....	.15	.16	Rhatary Root, bags.....	.21	.23	Rideritis Herb, cut bags.....		.18
Parley Seed, bags.....	.08½	.09	RHUBARB, H. D., cases.....	.28	.40	Skullcap Leaves, bales.....		.38
			Powdered, 200 lb bbls.....	.04½	.05	Sloe Berries, bags.....	.03	.04
			Rosemary Leaves, bales.....					

PODOPHYLLIN

U. S. P.

HYDRASTINE

U. S. P.

COLCHICINE

U. S. P.

Anesthesin Cinchophen

Barbital Procaine

Synthetic Chemicals, Alkaloids,

Extracts and Concentrations

The Abbott Laboratories

CHICAGO, ILL.

SODIUM CYANIDE 96%-98%

Stanley Smith & Co., London
(Ocean Chemical Co., Ltd.)

PHENOL

NAPHTHALENE

PYRIDINE

CRESYLIC ACID

Jas. Miller Son & Co., Ltd., Glasgow

WHITE ARSENIC 99%

Wheal Jewell & Marytavy Mines, Ltd.
Devon, England

PRIME CANDELILA WAX

Inquiries Solicited

Sole Agents in U. S. A.

AMERICAN-BRITISH
CHEMICAL SUPPLIES, Inc.

Room 1505

15 East 26th Street

New York

Telephone: Madison Square 3312

Crude Drugs

Snake Root, Canada natural bags..D	.45	: .50
Stripped, bags .....	...	...
SOAP BARK, whole, 150-200 lb		
bales .....	.08	: .09
Cut, 125-175 lb bags .....	.09 1/4	: .10
Crushed, 200 lb bbls .....	.11 1/4	: .12 1/4
Powdered, 200 lb bbls .....	.12	: .14
Spearmint Leaves, American bales..D	.24	: .25
Spermaceti, blocks cakes cases..D	.39	: .41
Spikenard Root, bags .....	.26	: .28
Spruce Gum, boxes	1.00	: 1.50
Squaw /ine, bales .....	...	: .17
Stavensac Seed, bags .....	.42	: .45
Stone Root, bags .....	.09	: .10
Storax, liquid artif. ....	.70	: .75
Gen. USP .....	.90	: 1.00
st. Ignatius Beans, bags .....	.22	: .23
St. John's Bread, bags .....	.04	: .08
Stramonium Leaves, bales .....	.08	: .09
Stramonium Seed, bags .....	.12	: .13
Strophanthus Seed, Haplidus .....	.35	: .40
Kombu, bags .....	.30	: .35
Sunflower Seed, domestic bags .....	.07	: .07 1/4
South American, bags .....	.06	: .07 1/4
TAGALDEN BARK, bags .....	...	: .05
Tamarindus, bbls .....	...	: .06 1/4
Keps .....	...	: 3.50
Tansy Herb, bales .....	.18	: .20
Tar, Barbados, 50 gal. bbls	1.60	: 1.75
Thus Gum, 280 lb bbls .....	...	: .05 1/4
Thyme, Spanish bales .....	.07	: .07 1/4
French, bales .....	.08 1/4	: .09
Tilia, See Linden		
Tolu Balsam, see Balsams		
Tongo Bark, bags .....	.30	: .31
Tonka Beans, Angostura, cases	2.25	: 2.35
Para, cases .....	.75	: .80
Surinam, cases .....	.80	: .85

Tragacanth Gum, No. 1, ribbon		
160 lb ca.	1.30	: 1.35
No. 2 to No. 6, cases	1.00	: 1.30
Powdered, 50 lb boxes .....	.95	: 1.00
Turkish, cases .....	.75	: .90
Turneric Root, Madras bags .....	.10 1/4	: .11
Aleppy, bags .....	.13	: .15
Powdered .....	.15	: .16
China, bags .....	.09	: .10
Turpentine, Venetian, true 80 lb ca. ..	.10 1/4	: .13
Artificial, 80 lb cases .....	.14	: .15
Spirits, see Naval Stores		
UNICORN ROOT, false, see Helonias		
True, see Aletris		
Uva Ursi Leaves, bales .....	.05 1/4	: .06
VALERIAN ROOT, Belgian bags .....	.08 1/4	: .09
Vanilla Beans Mex. whole cases	10.50	: 12.50
Cuba, cases	7.00	: 7.50
Bourbon, cases	7.50	: 8.00
South American, cases	6.00	: 6.25
Tahiti, yellow label cases .....	...	: ...
Green Label, cases .....	...	: ...
Violet Flowers, bags .....	.65	: .70
WANGU BARK, of root bags	1.00	: 1.65
Of Tree, bags .....	.46	: .48
White Pine Bark, rounded, bags .....	.07	: .08
White Poplar Bark, bags .....	.04	: .05
Wild Cherry Bark, thin green		
Rounded, bales .....	.16	: .17
Thick Rounded, bales .....	.09	: .10
Thin Natural, bales .....	.13	: .14
Thick Natural, bales .....	.07	: .08
Willow, bark bags .....	...	: .06
White, bags .....	...	: .15
Witch Hazel Bark, bags .....	...	: .07
Witch Hazel Leaves, bales .....	...	: .09
Worm Seed, American bags .....	.08 1/4	: .09
Levant bags .....	...	: 4.00
Wormwood Herb, imported bales .....	...	: .10
Yacca Gum, red .....	.04	: .04 1/4
Ground .....	.05 1/4	: .06 1/4
YELLOW DUCK ROOT, bags .....	.12	: .14
Yellow Parilla Root, bags .....	.16	: .17
Yerba Santa, bags .....	.09	: .10
Zedary Root, bags .....	.08	: .10

Essential Oils

Almond Bitter USP 5 lb bots.	D	3.25	: 3.75
Bitter ft PA 5 lb bots.	D	3.50	: 3.75
Artificial (See Benzaldehyde—Chemicals)			
Sweet, 56 lb cans	D	.35	: .40
Peach Kernel, 55 lb tins	D	.24	: .25
Apricot, see Peach Kernel			
Amber, crude 25 lb tins	D	.70	: .75
Rectified, 25 lb tins	D	.90	: 1.00
Angelica Root, 1 lb bot.	D	38.00	: 39.00
Seed, 1 lb bot.	D	38.00	: 38.00
ANISE, Tech., 66 lb case	D	.40	: .42
USP, 50 lb tins	D	.41	: .45
Bay, 25 lb tins	D	2.50	: 2.60
Bergamot, 25 lb coppers	D	3.00	: 3.15
Artificial, 25 lb cans	D	2.00	: 2.25
Birch Tar, rect. 5 lb bot.	D	1.10	: 1.15
Crude, 50 lb tins	D	.60	: .65
Bots de Rose, 25 lb tins	D	3.50	: 3.65
Cajuput, native, 50 lb tins	D	.80	: .85
Calamus, 5 lb bot.	D	4.25	: 4.75
Camphor, heavy, 1000 lb drums	D	.13 1/4	: .14 1/4
Japanese, white, 72 lb cases	D	.13 1/4	: .15
White, 1000 lb drums	D	.13	: .15
Cananga, native 25 lb tins	D	2.15	: 2.40
Rectified, 25 lb tins	D	2.75	: 3.00
Caraway, USP	D	8.25	: 8.50
Cardamom, USP, 1 lb bot.	D	30.00	: 33.00
Carrot, 5 lb bot.	D	17.00	: 18.00
CASSIA, 80-85 p.c. 400 lb drums	D	1.65	: 1.75
Redistilled, USP, 50 lb cans	D	2.25	: 2.35
Cedar Leaf, 50 lb tins	D	1.00	: 1.10
Cedar Wood, light 1000 lb drums	D	.30	: .32
Celery, 1 lb bot.	D	10.50	: 11.00
Cinnamon, Ceylon, 1 lb bot.	D	11.00	: 12.50
Leaf, 5 lb bot.	D	...	: 2.00
CITRONELLA, Ceylon,			
Schimmel Test, 1000 lb drums	D	.75	: .80
50 lb tins	D	.77	: .82
Pure, 1000 lb drums	D	.95	: 1.00
50 lb tins	D	.97	: 1.02
Java, 400 lb drums	D	1.05	: 1.10
50 lb tins	D	1.10	: 1.15
Cloves, USP, 50 lb cans	D	2.30	: 2.40
6 lb bot.	D	2.40	: 2.50

"Our Quality is Always Higher Than Our Price"

Terpeneless Oil of Limes

The employment of a terpeneless Lime Oil from which the malodorous and sharp-tasting terpenes have been removed permits the attainment of an unusually smooth lime flavor in candies, soft drinks, etc.

We offer an Oil of Limes which is COMPLETELY TERPENELESS, of high solubility and possessed of a smooth delicate flavor which will be a revelation to those not familiar with its use.

UNGERER & COMPANY

124 West 19th Street, New York

Tel. Watkins 2914-2915

CHIRIS

OIL BITTER ALMONDS U.S.P. and OIL BITTER ALMONDS S.P.A.

are both true to name and of the finest quality it is possible to secure. We offer only one grade and solicit inquiries from all who are interested in securing the genuine article.



ANTOINE CHIRIS COMPANY

147-153 Waverly Place, New York, N. Y.

Canadian Office

489 St. Paul St., W., Montreal, Canada

Chicago Office

150 W. Austin Avenue, Chicago, Ill.

Essential Oils

Capsaicin, USP, 50 lb. time.....	D	35	: 40
Coriander, USP, 1 lb. bot.....	D	14.75	: 15.00
Croton, USP, 25 lb. time.....	D	1.00	: 1.10
Cubeb, USP, 5 lb. bot.....	D	5.25	: 5.50
Cumin, 1 lb. bot.....	D	14.00	: 15.00
Dill, 1 lb. bot.....	D	4.25	: 5.00
Erigeron, 20 lb. time.....	D	1.30	: 1.35
EUCALYPTUS, Austl. USP			
50 lb. ca.	D	75	: 85
500 lb. drums	D	...	: 75
Fennel, USP, 25 lb. time.....	D	1.00	: 1.05
Geranium, Algerian, 25 lb. time..	D	7.00	: 7.25
Bourbon, 25 lb. time.....	D	6.50	: 6.75
Turkish, 25 lb. time.....	D	4.50	: 4.75
Ginger, 1 lb. bot.....	D	5.75	: 6.00
Gingergrass, 25 lb. time.....	D	2.75	: 3.00
Hemlock, 50 lb. cans.....	D	1.10	: 1.20
Juniper Berries, USP, 25 lb. time..	D	1.25	: 1.35
Wood, 50 lb. time.....	D	.60	: .70
Lavender, USP, 25 lb. time.....	D	4.50	: 6.00
Spice, Spanish, 50 lb. cans.....	D	.90	: 1.00
LEMON, Ital. USP, 25 lb. time.....	D	.80	: .95
American, USP, 25 lb. time.....	D	.75	: .80
Lemongrass, native, 50 lb. cans.....	D	.80	: .85
Limes, express, 25 lb. time.....	D	1.70	: 1.80
Distilled, 25 lb. time.....	D	1.00	: 1.05
Linaloe, Mex. 80 lb. cases.....	D	3.50	: 3.75
Mace, distilled, 50 lb. time.....	D	1.25	: 1.35
Mirbane, ref., see Ar. Chemicals			
Mustard, USP, 1 lb. bot.....	D	...	: 14.00
Artif., USP, 1 lb. bot.....	D	4.00	: 4.25
Neroli, Bigarade, 1/2 & 1 lb. bot.....	D	40.00	: 60.00
Petale, 1 lb. bot.....	D	70.00	: 120.00
Artificial, 1 lb. bot.....	D	10.00	: 25.00
Nutmeg, USP, 25 lb. time.....	D	1.25	: 1.35
Orange, bitter, 25 lb. time.....	D	2.25	: 2.75
Sweet, W. Ind., 25 lb. time.....	D	2.45	: 2.55
Italian, 25 lb. cop.....	D	3.10	: 3.35
American, 25 lb. time.....	D	2.85	: 2.90
Distilled, 25 lb. tin.....	D	1.75	: 1.80
Origanum, 50 lb. cans tech.....	D	.30	: .35
Parsley, 1 lb. bot.....	D	3.50	: 4.00
Patchouli, 5 lb. bot.....	D	6.50	: 6.75
Pennyroyal, dom. 25 lb. time.....	D	1.90	: 2.25
Imported, 25 lb. time.....	D	1.80	: 2.00
PEPPERMINT, nat. 60 lb. cans.....	D	3.60	: 3.85
Rodent, USP, 60 lb. cases.....	D	3.75	: 4.00
Petit Grain, S. Am. 25 lb. time..	D	1.75	: 1.85
French, 1 lb. bot.....	D	7.00	: 8.00
Italian, 25 lb. time.....	D	2.25	: 2.35

Pimento, 25 lb. time.....	D	2.00	: 2.10
Pinus Sylvestris, 25 lb. time.....	D	...	: 1.75
Pumilio, USP, 25 lb. time.....	D	...	: 2.75
Rose, Fr., 8, 16 & 32 oz. pkgs.....	ca	...	: 8.00
Bulg., 8, 16 & 32 oz. pkgs.....	ca	8.00	: 9.00
Artificial, 1 lb. bot.....	ca	2.00	: 3.00
Rosemary, USP, 27 1/4 lb. time.....	D	.40	: .45
1000 lb. drums	D	...	: 37 1/2
Tech., 27 1/4 lb. time.....	D	.35	: .40
Rue, 1 lb. bot.....	D	...	: 4.25
Sandalwood, R.I. USP, 75 lb. cases..	D	6.75	: 6.90
W. Indian, (Amoy) 25 lb. time.....	ca	2.00	: 3.25
Sassafras, USP, 50 lb. cans.....	D	1.70	: 1.80
Artificial, 1000 lb. drs., 60 lb. cases..	D	.37	: .38
Savin, 5 lb. time.....	D	2.75	: 3.00
Spearminf, USP, 60 lb. cases.....	D	2.40	: 2.50
Spruce, 50 lb. time.....	D	1.10	: 1.30
Tansy Amer., 20 lb. time.....	D	4.25	: 4.35
Tar, 50 gal. bbls.....	gal	.25	: .36
Refined, USP 25 lb. time.....	D	...	: ...
Thyme, red, USP 25 lb. time.....	D	1.00	: 1.05
White, USP 25 lb. time.....	D	1.15	: 1.25
Tech., 110 lb. drums.....	D	.85	: .90
Vetiver, Bourbon, 1 lb. bot.....	D	9.00	: 9.50
Java, 1 lb. bot.....	D	28.00	: 30.00
Wine, heavy 1 lb. bot.....	D	...	: 2.75
WINTERGREEN			
Sweet bch., 25 lb. time.....	D	2.50	: 3.00
Southern, 25 lb. time.....	D	1.85	: 2.00
Gaultheria, true 25 lb. time.....	D	7.00	: 8.00
Southern, 25 lb. time.....	D	4.00	: 4.25
Synthetic, USP, 50 lb. cases.....	D	...	: .47
Wormseed Balt., USP, 25 lb. time.....	D	6.50	: 7.00
Wormwood dom., 25 lb. time.....	D	3.75	: 4.00
Ylang Ylang, Bourbon 10 lb. time.....	D	7.00	: 9.00
No. 1	D	5.00	: 6.00
No. 2	D	28.00	: 35.00
Manila, 1 lb. bot.....	D	10.00	: 12.00
Artificial, 1 lb. bot.....	D	...	: ...
OLEORESINS			
Aspidium, USP, 1 lb. bot.....	D	2.75	: 3.00
Capicium, USP, 5 lb. bot.....	D	2.50	: 2.75
Ginger, 5 lb. bot.....	D	3.25	: 3.50
Cubeb, USP, 1 lb. bot.....	D	4.50	: 4.75
Malefern, See Aspidium			
Orris, 1 lb. bot.....	D	15.00	: 18.00
Pepper, black, USP, 1 lb. bot.....	D	3.50	: 4.00
Vanilla, 1 lb. bot.....	D	12.00	: 14.00

Aromatic Chemicals

NATURAL DERIVATIVES

Anethol, 2 lb. bot.....	D	1.25	: 1.75
Borneol, 1 lb. bot.....	D	...	: 3.50
CITRAL, 25 lb. cans.....	D	2.75	: 3.00
Citronellal, 1 lb. bot.....	D	2.00	: 2.25
Extra	D	...	: ...
EUCALYPTOL, USP, 25 lb. cans.....	D	.85	: .90
Eugenol, USP, 25 lb. cans.....	D	3.25	: 3.50
Geraniol, Domestic, 50 lb. cans.....	D	3.25	: 3.50
Imported, 5 lb. bot.....	D	4.25	: 5.50
Iso-Eugenol, 1 lb. bot.....	D	4.50	: 5.00
Imported	D	5.50	: 4.50
Linalool, 5 lb. bot.....	D	8.00	: 9.00
MENTHOL, 60 lb. cases.....	D	...	: 12.25
Less cases, 5 lb. cans.....	D	...	: 12.75
Rhodinol, 1 lb. bot.....	D	15.00	: 30.00
SAFROL, 60 lb. cans.....	D	.48	: .50
Thymol, USP, 25 lb. time.....	D	3.25	: 3.50

SYNTHETIC AROMATICS

Acetaldehyde, 50% sol pure, 5 lb bot. D	1.75	: 2.00
Acetophenone CP, 1 lb bot..... D	4.25	: 4.50
Aldehyde, C-8 (Octyl), 1 lb bot. D	45.00	: 60.00
Aldehyde, C-9 (Nonyl), 1 lb bot. D	70.00	: 75.00
Aldehyde, C-10 (Decyl), 1 lb bot. D	50.00	: 55.00
Aldehyde, C-12 (Dodecyl), 1 lb bot. D	27.50	: 32.50
Aldehyde, C-14, 1 lb bot..... D	22.50	: 25.00
Aldehyde, C-16, 1 lb bot..... D	70.00	: 80.00
Aubepine, see Anisic Aldehyde		
Amyl Acetate, pure, 5 gal. cans gal	7.00	: 8.00
Amyl Butyrate, 1 lb bot..... D	1.75	: 2.00
Amyl Cinnamate, 1 lb bot..... D	4.00	: 4.50
Amyl Formate, 1 lb bot..... D	1.50	: 1.75
Amyl Phenyl Acetate, 1 lb bot. D	4.50	: 5.00
AMYL SALICYLATE, dom. 100 lb chys..... D		
Imported	1.45	: 1.50
Amyl Valerate, 5 lb bot..... D	2.25	: 2.50
Anisic Aldehyde, 1 lb bot..... D	4.75	: 5.00
BENZALDEHYDE, USP, 40 lb chys D	3.75	: 4.50
FFC, 40 lb chys..... D	1.50	: 1.75
Benzole Ether, See Ethyl Benzoate		
Benzenophenone, 1 lb bot..... D	6.75	: 7.00
Benzyl Acetate, 100 lb chys..... D	1.55	: 1.75

OLEO RESIN
CUBEBSSUGAR
COLORING

"2 STAR"

W. J. BUSH & CO., Inc.

1370 SEVENTH AVE., NEW YORK, N. Y.

Also at 394 St. Paul St. W., Montreal

OILS
ESSENTIAL
OILS

AND

Aromatic Chemicals

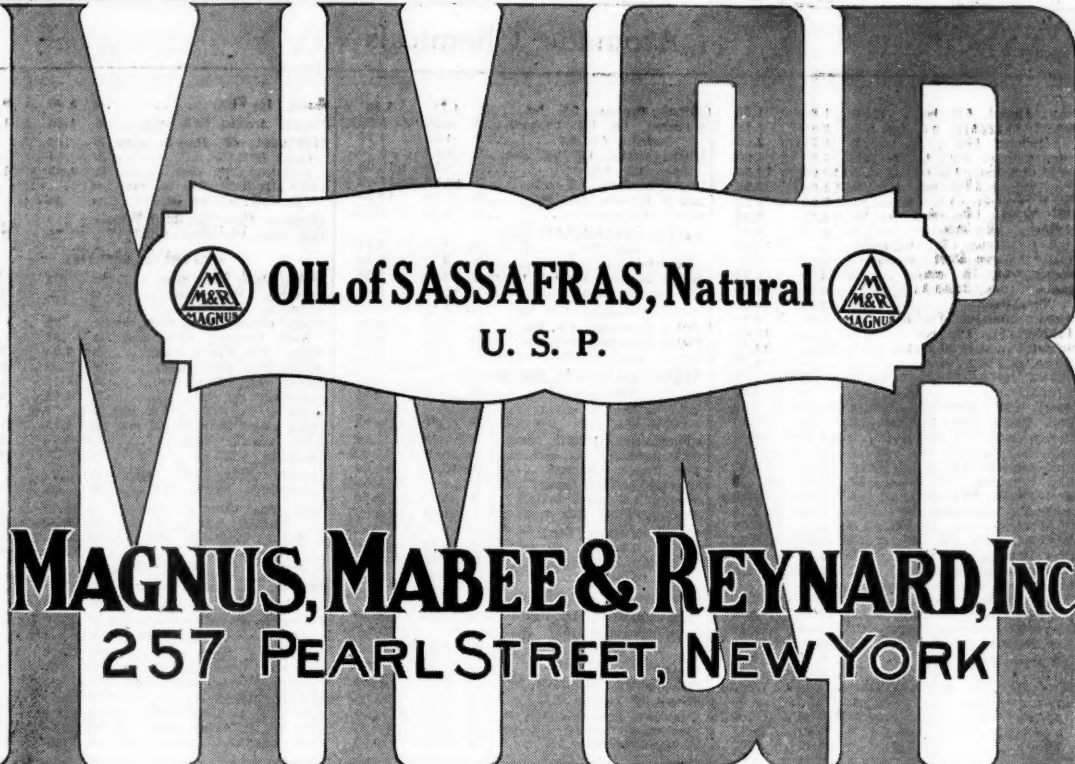
Manufacturers
Importers
Exporters



Correspondence Solicited

FRITZSCHE BROTHERS



Inc.

NEW YORK





 **OIL of SASSAFRAS, Natural** 
U. S. P.

MAGNUS, MABEE & REYNARD, INC
257 PEARL STREET, NEW YORK

 **LES USINES** 
ALLONDON
LA PLAINE—GENEVA
SWITZERLAND

**Diethylbarbituric
Acid**

J. E. DOCKENDORFF & CO.
Sole Agents and Representatives
20 BROAD ST., NEW YORK
Tel. Rector 4333-4 Cable "Dockendorf"

Aromatic Chemicals

Benzyl Alcohol, 5 lb bot.....D	1.80 : 1.70	Iso-Butyl Benzoate, 5 lb bot.....D	4.75 : 5.00	Skatol, 1 oz. bot.....oz	8.00 : 8.00
BENZYL BENZOATE, 5 lb bot.....D	1.60 : 1.75	Iso-Safrol, 1 lb bot. imported.....D	5.25 : 5.50	Terpinyl Acetate, 25 lb cans.....D	1.85 : 1.85
Medicinal FFC.....D	1.75 : 2.00	Domestic, 5 lb bot.....D	4.00 : 4.25	TERPINEOL, CP, 1000 lb drums.....D	.50 : .51
Benzyl Butyrate, C.P., 1 lb bot.....D	5.50 : 6.00	Linalyl Acetate, 1 lb bot. Dom.....D	8.00 : 9.50	Cans, 50 lb.....D	.54 : .55
Benzyl Cinnamate, 1 lb bot.....D	10.00 : 10.50	Imp., 1 lb bot.....D	8.50 : 10.00	Imported, 25 lb cans.....D	1.30 : 1.30
Benzyl Formate, 1 lb bot.....D	3.00 : 3.25	Linalyl Benzoate, 1 lb bot.....D	13.00 : 14.00	VANILLIN, USP, 500 oz. cans.....oz	.. : .54 1/2
Benzyl Propionate, 1 lb bot.....D	5.00 : 5.25	Linalyl Formate, 5 lb bot.....D	10.50 : 12.00	Cans, 16 oz., 80 oz.....oz	.55 : .56
Bornyl Acetate, 1 lb bot.....D	2.75 : 3.25	Methyl Acetophenone.....D	4.75 : 5.00	Valerianic Ether, See Ethyl Valerate	
Bromstyrol, 25 lb bags.....D	4.00 : 4.25	METHYL ANTHRANILATE dom.,		Yara Yara, 1 lb cans.....D	1.75 : 2.00
Butyl Anthradilate, 1 lb bot. dom. D	.. : 16.00	1 lb bot.....D	3.25 : 3.75		
Butyric Ether, See Ethyl Butyrate		Imported.....D	4.50 : 5.00	PERFUMERS' SUNDRIES	
Cinnamic Acid, 5 lb cans.....D	3.00 : 3.25	Methyl Benzoate, 5 lb bot. import D	2.00 : 2.25	Almond Meal, 25 lb cans.....D	.28 : .30
Cinnamic Alcohol, Liquid 1 lb bot. D	10.00 : 14.00	Domestic, 5 lb bot.....D	1.75 : 2.00	Ambergris, black, bxs.....oz	.. : 8.00
Crystallizable.....D	12.00 : 14.00	Methyl Cinnamate, 1 lb bot.....D	3.50 : 3.75	Ambergris, gray, bxs.....oz	.. : 28.00
Cinnamic Aldehyde, 1 lb bot.....D	3.20 : 3.50	Methyl Heptenone, 1 lb bot.....D	8.00 : 8.25	Balsam Copaiba, Para, 80 lb cases.....D	.25 : .25
CITRONELLOL, 1 lb bot.....D	8.00 : 12.00	Methyl Paracresol, 1 lb bot.....D	8.00 : 9.00	South American, 80 lb cases.....D	.27 : .28
Citronellyl Acetate, 1 lb bot.....D	13.00 : 14.00	Methyl Phenylacetate, 5 lb bot. dom. D	3.75 : 4.00	Balsam Peru, 120 lb cases.....D	2.00 : 2.10
CSUMARIN, 25 lb cans.....D	3.85 : 4.00	METHYL SALICYLATE, USP 500 lb		Balsam Tolu, 90 lb cases.....D	2.00 : 2.25
DIETHYL PHTHALATE, 25 lb cans.....D	.50 : .55	drums.....D	.. : .45	Benzoin Gum, Siam, bxs.....D	1.15 : 1.20
1000 lb drs.....D	.40 : .45	50 lb cases.....D	.. : .47	Castoreum, 1 lb bot.....D	4.00 : 4.50
Diphenylacetic, 25 lb tins.....D	.85 : .90	Second Hands.....D	.45 : .46	Chalk, precip. light, 175 lb bbls.....D	.04 1/2 : .05
Ethyl Acetate, pure, 5 lb bot.....D	.45 : .50	Mirbane, rect., 1000 lb drums.....D	12 1/4 : .14	Cherry Laurel Water, 5 gal cans.....gal	1.15 : 1.25
Ethyl Benzoate, 5 lb bot.....D	1.85 : 2.00	Musk Ambrette, 1 lb case.....D	15.00 : 16.00	Civet Abyssin, horns.....oz	2.75 : 3.75
Ethyl Butyrate, 5 lb bot.....D	1.75 : 2.00	Musk Ketone, 1 lb cans.....D	15.00 : 16.00	Labdanum, 5 lb bot.....D	.. : 8.00
Ethyl Caproate, 1 lb bot.....D	3.25 : 3.50	Musk Xylene, 5 lb cans.....D	4.25 : 4.50	Lanolin hydrous, 350 lb bbls.....D	.21 : .22
Ethyl Cinnamate, 1 lb bot.....D	3.50 : 3.75	Nerolin, 1 lb cans.....D	1.85 : 2.00	Anhydrous, 350 lb bbls.....D	.23 : .24
Ethyl Formate, 5 lb bot.....D	2.00 : 2.10	Oenanthic Ether, 1 lb bot.....D	1.50 : 2.00	Musk pods, Cabardine, tins.....oz	16.00 : 17.00
Ethyl-methyl Paracresol, 1 lb bot. D	3.25 : 3.50	Phenylacetaldehyde, Dom.,		Tonquin, tins.....oz	22.00 : 25.00
Ethyl Phenylacetate, 5 lb bot.....D	3.75 : 4.00	1 lb bot., 50 pc.....D	9.50 : 10.50	Grains, Cabardine, tins.....oz	25.00 : 26.00
Ethyl Propionate, 1 lb bot.....D	2.25 : 2.50	Imported, 50 pc.....D	10.00 : 12.00	Tonquin, tins.....oz	35.00 : 38.00
Ethyl Valerate, 5 lb bot.....D	4.50 : 4.75	80-85 p.c.....D	16.00 : 18.00	Synthetic, See Aromatic Chemicals	
Ethyl Salicylate, 5 lb bot.....D	3.25 : 3.50	Phenyl Diacetate, 1 oz. bot.....oz	3.25 : 3.50	Orris Rt. Flor., powd. bbls.....D	.09 : .11
Formic Ether, See Ethyl Formate		Phenyl Diacetate, 1 lb bot.....D	8.00 : 8.25	Verona, bbls.....D	.08 : .09
Geranyl Acetate, 1 lb bot.....D	6.50 : 7.00	Phenyl Diacetate, 1 oz. bot.....oz	3.25 : 3.50	Petrolatum, snow white, 350 lb bbls.....D	.12 1/4 : .13
Geranyl Butyrate, 1 lb bot.....D	13.00 : 13.50	PHENYLETHYLALCOHOL dom.,		Light Amber, 350 lb bbls.....D	.04 1/2 : .05
Geranyl Formate, 1 lb bot.....D	12.00 : 12.50	1 lb bot.....D	8.00 : 10.00	Rice Starch, 140 lb bgs.....D	.09 : .10
Hydroxycitronellal, 1 lb bot.....D	15.00 : 18.00	Imported.....D	8.00 : 9.00	Rose Water, 8 2-3 gal chys.....gal	1.00 : 1.25
Heliotropin, dom., 10 lb bot.....D	1.85 : 2.00	Phenylethyl Butyrate, 1 lb bot.....D	26.00 : 28.00	Sandalwood chips, powd., bags.....D	.30 : .35
Imported.....D	2.50 : 2.75	Phenylethyl Formate, 1 lb bot.....D	19.00 : 21.00	Saponin, 5 lb tins.....D	1.25 : 1.50
Indol, CP, 1 oz. bot.....oz	6.00 : 6.50	Phenylethyl Propionate, 1 lb bot.....D	20.00 : 24.00	Talc Italian, 220 lb bgs.....ton	42.00 : 55.00
Isoeone, 1 lb bot.....D	5.00 : 9.00	Phenylethyl Valerate, 1 lb bot.....D	25.00 : 29.00	Talc French, 220 lb bags.....ton	32.00 : 45.00
Alpha.....D	10.00 : 12.00	Phenylpropylalcohol, 1 lb bot.....D	15.00 : 16.00	Talc, domestic ref., 100 lb bags.....ton	20.00 : 30.00
Beta.....D	9.00 : 11.00				
Methyl.....D	12.50 : 15.00				

ANTIPYRINE
(Phenazone U. S. P.)

AMIDOPYRINE
(Pyramidon)

DIMETHYL SULPHATE
RESORCINOL TECHNICAL

RESORCINOL U. S. P.

Crystal or Powdered

ETHYL CHLORIDE
in cylinders

For refrigeration and technical purposes.

HYDROQUINONE
Technical and photographic

RHODOL
(Metol)

RHODIA CHEMICAL CO.

89 Fulton Street
New York

Works: New Brunswick, N. J.

Essential Oils
and
Aromatic Chemicals
for
PERFUMES, SOAPS,
FLAVORING
EXTRACTS

Morana Incorporated
Importers and Manufacturers

GENERAL OFFICES:

118 East 27th St., New York City

CHICAGO:
19 S. LA SALLE ST.

WORKS:
ELIZABETH, N. J.

Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at New York, Feb. 16 to Feb. 23

ACIDS—Cresylic, 1 bx., De Mattia Chem. Co., Manchester; Formic, 321 carboys, Order, Hamburg; Oxalic, 101 bbls., Order, Hamburg; 27 bbls., Brown Bros. & Co., Hamburg; 66 cks., Roessler & Hasslacher, Hamburg; Tartaric, 190 kgs., 60 bbls., W. Benkert & Co., Rotterdam; 100 cks., Order, Rotterdam

ALCOHOL—Butyl, 2 drs., Order, London; Denatured, 125 bbls., C. Esteve, Arcibo

AMMONIUM—Carbonate, 10 bbls., 10 cks., Brown Bros. & Co., Liverpool; Muriate, 200 cks., Kuttroff Pickhardt Co., Rotterdam; Nitrate, 207 cks., Order, Hamburg

ANTIMONY—130 cs., Wah Chang Trdg. Corp., Rotterdam; 68 cs., E. Hill Sons & Co., Newcastle; 250 cs., Order, Hamburg; Regulus, 500 cs., Intern. Bkg. Corp., Shanghai; 500 cs., C. Gitlan, Changsha; 200 cs., Asia Bkg. Corp., Hankow; 250 cs., Nat. Bank of Commerce, Hankow; 10 cks., L. H. Butcher & Co., Hamburg; Sulfide, 25 cks., L. H. Butcher & Co., London

ARGOLS—241 bgs., C. Pfizer & Co., Rotterdam

ARSENIC—250 drs., C. Tennant Sons & Co., Bristol; 150 cks., A. Klipstein & Co., Hamburg; 47 cks., Order, Brisbane

BALSAM—10 cs., Hamberger Polhemus & Co., La Libertad; 16 cs., Dodge & Olcott Co., La Libertad; 15 cs., Ultramares Corp., La Libertad; 12 cs., Dodge & Olcott Co., La Libertad; Tolu, 15 cs., Ultramares Corp., Puerto Colombia; 9 cs., C. E. Griffen & Co., Puerto Colombia; Copaiba, 47 cs., H. A. Astlett & Co., Para; 6 drs., Order, Para

BARIUM—Chloride, 150 bbls., Order, Bremen; Hydrate, 31 bbls., Brown Bros., Hamburg

BARK—Cinchona, 11 cs., A. Stallman & Co., Rotterdam

BARYTES—250 bgs., H. Kastor, Rotterdam; 50 tons, W. Schall & Co., Newcastle

BAY RUM—10 bbls., S. Albam, San Juan; 2 cks., R. Jenkins, San Juan

BONE MEAL—560 bgs., E. Suter & Co., Antwerp

CALCIUM—Arsenate, 2 drs., Philipp Bauer Co., Hamburg; Chloride, 158 bbls., E. Suter & Co., Hamburg; Metallic, 20 cs., Gallagher & Ascher, Havre

CAMPHOR—100 cs., C. Pfizer & Co., Vancouver, B. C.

CASEIN—3,385 bgs., Kalbfleisch Corp., Buenos Aires

CHALK—150 bgs., H. J. Baker & Bro., Bristol; 200 bbls., Bankers Trust Co., Antwerp; 500 bgs., L. A. Salomon & Bros., Antwerp; 300 bgs., Brown Bros. & Co., Antwerp; 550 bgs., Order, Antwerp

CHEMICALS—308 cks., Hummel Robinson Corp., Rotterdam; 140 drs., J. W. Hampton, Jr. & Co., London

CHEMICAL PRODUCTS—43 cs., Kuttroff Pickhardt & Co., Rotterdam; 16 cs., G. Lueders & Co., Havre; 6 cs., R. F. Downing & Co., Havre; 6 cs., E. Fougere, Havre; 6 cs., Order, Havre

CINCHONIDINE—40 cs., R. W. Greeff & Co., Rotterdam; Sulfate, 2 cs., De Mattia Chem. Co., Havre

COLORS—5 cs., J. A. McNulty, Liverpool; 20 cks., Manhattan Co., Rotterdam; 14 cks., Kuttroff Pickhardt & Co., Rotterdam; 13 cks., Kuttroff Pickhardt & Co., Rotterdam; 3 cs., Colour Service Co., Rotterdam; 8 cs., H. A. Metz & Co., Rotterdam; 46 cks., Ciba Co., Havre; 2 cs., B. F. Drakenfeld & Co., Havre; 10 cks., Reichard Coulston, Inc., Havre; 40 cs., R. F. Downing & Co., London; 20 cks., Meteor Prod. Co., Ham-

burg; 50 cks., Heller & Merz, Bremen; 46 cks., Reichard Coulston, Hamburg; Bronze, 34 cs., Bair Bros., Bremen; 9 cs., Bank of Manhattan Co., Bremen; 14 cs., B. F. Drakenfeld, Bremen; 20 cs., Gerstendorfer Bros., Bremen; Coal Tar, 33 cks., H. A. Metz & Co., Rotterdam

CLAY—317 bgs., Bankers Trust Co., Bristol; 417 bgs., J. W. Hampton, Jr. & Co., Bristol; 16 cks., Order, Antwerp; China, 30 cks., C. C. English Co., Bristol

COPPER—Sulfate, 200 bbls., C. Hardy, Inc., Hamburg

COPRA—4 bgs., M. A. De Leon & Co., Panama

CUTTLEFISH BONES—97 straps, Order, Genoa

DIVI DIVI—3,376 bgs., Selma Merc. Corp., Curacao; 620 bgs., Eggers & Heinlein, Pampatar; 290 bgs., Scholtz & Co., Pampatar

DRUGS—4 cs., G. J. W. Wallau, Havre; 20 bbls., C. H. Reisig, Havre; 20 bbls., J. Powell & Co., Havre

EARTH—Red, 320 bgs., G. Z. Collins & Co., Bristol; 74 cks., Order, Bristol; Yellow, 29 cks., Order, Bristol

EPSOM SALTS—300 bgs., E. Suter & Co., Bremen

EXTRACTS—Archil Liquor, 5 cks., Order, Liverpool; Logwood, 5 drs., Order, Liverpool; Quebracho, 9,442 bgs., Tannin Corp., Buenos Aires; 7,684 bgs., Internatl. Products Corp., Buenos Aires; 3,664 bgs., Nat. Bk. of Commerce, Buenos Aires; 2,000 bgs., Order, Buenos Aires; 7,338 bgs., Internatl. Products Co., Buenos Aires

FLOWERS—Chamomile, 28 cs., J. D. Nordlinger Co., Hamburg

GALLNUTS—20 cs., D. L. Moss & Co., London

GERANIOL

Di Ethyl Phthalate
Phenyl Acetic Acid
Cinnamic Acid
Geraniol
Nutonka
True Fruit Flavors
Terpeneless Essential
Oils

THE FRIES & FRIES Co.

1501-13 W. 6th St.
Cincinnati, O.

242 Pearl St.
New York

Cresylic Acids

ALL GRADES

CRESOL U. S. P.
META CRESOL PURE
PARA CRESOL PURE
ORTHO CRESOL PURE
ACROSYL
(SAPONIFIED CRESOL)

SPOT AND FOR IMPORT

Manufactured at our Ruabon, N. Wales Works

Monsanto Chemical Works
St. Louis, U.S.A.
NEW YORK CHICAGO

GELATIN—10 cs., J. P. Smith & Co., London; 21 bbls., H. A. Sinclair, Rotterdam; 20 cs., Amer. Exp. Co., Rotterdam.

GLAUBER SALT—1 bg., H. O. Wagner, Hamburg; 125 bbls., E. M. Sergeant & Co., Hamburg; 114 bgs., Roessler & Hasslacher, Hamburg; 738 cks., E. Suter & Co., Hamburg.

GLUE—30 bgs., Amer. Exp. Co., Liverpool; 122 bls., 1 cse., 28 bbls., 1 pge., M. Miller, Antwerp; 190 bgs., G. H. Hemmel, London; 100 bgs., Amer. Exp. Co., London; 107 pks., W. E. Miller, Havre; 20 bbls., Jefferson Impts. Co., Hamburg; 268 bgs., Baring Bros., Hamburg; 200 pgs., Order, Hamburg; **Powder**, 150 bgs., Order, Liverpool.

GUMS—74 cs., P. Kazanjian, Bombay; 156 cs., Gullabi Gulbenkian & Co., Bombay; 56 cs., Order, Bombay; 145 bgs., Order, Port Sudan; **Arabic**, 70 bgs., Brown Bros. & Co., Bombay; 1,144 bgs., Guaranty Trust Co., Bombay; 120 bgs., Order, Bombay; **Amatoctida**, 130 cs., Order, Bombay; **Copal**, 306 bgs., Chem. Nat. Bk., Antwerp; 812 bgs., Order, Antwerp; 64 bgs., Order, Singapore; **Elemi**, 41 cs., F. E. Zuehlig, Manila; **Ghatti**, 150 cs., Order, Bombay; **Karaya**, 467 bgs., Guaranty Trust Co., Bombay; 134 bgs., Brit. Bk. of So. Amer., Bombay; 722 bgs., Order, Bombay; **Kauri**, 151 cs., Guaranty Trust Co., Auckland; 294 bgs., Brown Bros., Auckland; 4 cs., Wonham Bates & Goode, Auckland; **Olibanum**, 18 cs., Order, Bombay; 17 cs., Order, London; 18 cs., Amer. Orient Tdg. Co., Aden; **Tragacanth**, 32 cs., N. Y. Produce Co., Bombay; 283 bgs., Order, Bombay; **Yacca**, 689 bgs., Order, Adelaide.

HARTSHORN SALT—127 cks., Order, Hamburg.

HERBS—3 bls., Peek & Velsor, Bremen; **Medical**, 3 cs., Order, Bombay.

HYDROSULFITE—25 cks., H. A. Metz & Co., Rotterdam.

IRON—Chloride, 40 bbls., Irving Bank, Hamburg; Oxide, 36 cks., J. A. McNulty, Liverpool; Sulfite, 32 bbls., Farmers Loan & Trust Co., Hamburg.

LEAVES—Colocyath, 27 bls., Order, Port Sudan; **Euphorbia**, 40 bls., Order, Bombay.

LITHOPONE—200 cks., A. Klipstein & Co., Antwerp.

MAGNESIA—Calcined, 47 cs., Order, Newcastle; Carbonate, 72 cs., 112 bgs., Order, Newcastle.

MAGNESITE—188 bgs., 66 bbls., A. Kramer & Co., Rotterdam; 3,600 bgs., Order, Madras.

MYROBALANS—3,139 bgs., Nat. City Bank, Bombay; 2,980 bbls., Order, Bombay; 1,000 pkts., Order, Calcutta.

NAPHTHALENE—439 bgs., Order, Bristol; 473 bgs., 48 cks., Order, Hamburg.

NUX VOMICA—960 bgs., Order, Cochinchina.

OILS—Coconut, 500 tons, quantity, Order, Manila; Cod, 23 cks., Order, St. Johns, N. F.; 200 bbls., J. D. Irwin, Aberdeen; 200 bbls., W. Schall & Co., Aberdeen; 100 bbls., Order, Aberdeen; **Codliver**, 1 bbl., Park Benziger & Co., St. Johns, N. F.; 10 pgs., Mead Johnson & Co., St. Johns, N. F.; 60 bbls., Order, Bergen; 100 bbls., H. J. Baker & Bros., Bergen; 10 bbls., Schieffelin & Co., Bergen; 25 bbls., Kachurin Drug Co., Bergen; 35 bbls., A. C. Vanderpool Co., Bergen; 30 bbls., Asia Drug Co., Bergen; 200 bbls., E. R. Squibb & Co., Bergen; **Cresote**, 4,226 tons, Amer. Cresote Co., Matanzas; **Haarlem**, 10 cs., Kronfeld Saunders & Co., Rotterdam; 15 cs., Escho Chem. Corp., Rotterdam; **Olive**, 100 bbls., Bankers Trust Co., Barcelona; 50 bbls., Chase Nat. Bank, Seville; 1,950 cs., 400 bbls., Briones & Co., Seville; 100 bbls., Rome Imptg. Co., Seville; 50 bbls., N. S. Manahos, Seville; 100 bbls., Lekas & Drivas, Seville; 35 bbls., East River Nat. Bank, Seville; 50 bbls., A. Cash, Seville; 50 bbls., Elysee Olive Oil Co., Seville; 50 bbls., Irving Bank, Seville; 75 bbls., A. Redon, Seville; 100 bbls., Brown Bros. & Co., Seville; 200 bbls., Manhattan Bank, Seville; 50 bbls., Order, Seville; 100 cs., Marotta & Cellier, Genoa; 100 cs., A. Lucara, Genoa; 100 cs., A. Protta & Co., Genoa; 200 cs., Vittoria Olive Oil Imptg. Co., Genoa; 802 cs., P. Pastene & Co., Genoa; 2,726 cs., Order, Genoa; **Palm**, 18 cks., Phila. Nat. Bk., Antwerp; 5 drs., North Amer. Grain Corp., Liverpool; **Peanut**, 812 bgs., Order, Bombay; **Rape**, 64 bbls., Order, Liverpool; 100 bbls., Balfour

Williamson & Co., Hull; 200 bbls., J. C. Francesconi & Co., Hull; 570 bbls., Order, Hull; **Seal**, 6 bbls., Order, Christiania; 1 bbl., Bowring & Co., St. Johns; **Sesame**, 200 bbls., Order, Bombay; **Sulfur**, 20 cs., Phila. Nat. Bank, Alicante; **Whale**, 23,000 bbls., Procter & Gamble, St. Georgia; **Wood**, 100 drs., J. B. Boody & Co., Hongkong; 250 drs., Nat. City Bank, Hongkong; 156 bbls., Order, Tientsin; 297 cks., Irving Bank, Hankow; 734 cks., Order, Hankow.

OILS, ESSENTIAL—9 cs., Polaks Frutal Wks., Rotterdam; 43 cs., J. H. Faunce, Inc., London; 4 cs., Ungerer & Co., London; **Anise**, 4 drs., Equit. Trust Co., Hongkong; 5 drs., J. B. Horner, Hongkong; 5 drs., Ungerer & Co., Hongkong; **Bay**, 12 cs., Santoni Tdg. Co., Arroyo; **Cassia**, 5 drs., Equit. Eastern Bkg. Corp., Hongkong; 4 drs., Amer. Exch. Nat. Bk., Hongkong; 5 drs., Brown Bros. & Co., Hongkong; **Citronella**, 2 drs., H. C. Ryland, London; 2 drs., A. Rosenthal & Sons, Corinto; 6 drs., Guaranty Trust Co., London; **Eucalyptus**, 200 cs., Order, Melbourne; 60 cs., 9 drs., J. F. McCoy & Co., Melbourne; **Fusel**, 18 cks., W. Van Doorn Co., Rotterdam; 7 cks., Order, Rotterdam; 4 cks., A. Klipstein & Co., Hamburg; 16 bbls., Order, Hamburg; **Lemongrass**, 21 drs., Order, Cochinchina; **Lime**, 6 cs., Colonial Bank, Kingston.

PYRIDINE—1 drum, C. Page, Hamburg; 2 drs., North Amer. Service Co., Hamburg.

PLUMBAGO—327 bbls., Order, Colombo.

POTASSIUM SALTS—102 bbls., Goldschmidt Corp., Hamburg; **Alum**, 500 bbls., Order, Hamburg; **Caustic**, 67 drs., Superfos Co., Hamburg; **Muriate**, 6,000 bgs., Potash Imptg. Corp., Bremen; **Prussiate**, 14 cks., C. F. Smillie & Co., Rotterdam.

PHOSPHATE—Super, 500 bgs., E. Suter & Co., Antwerp.

QUININE—30 cs., Intern. Merc. Marine Co., Rotterdam; 25 cs., R. W. Greeff & Co., Rotterdam.

ROOTS—12 sks., Innis Speiden & Co., Hamburg; **Ipecac**, 17 bgs., Ultramarca Corp., Cartagena; 2 bgs., R. Del Castillo & Co., Cartagena.

ROSIN—991 bgs., Order, Adelaide.

YELLOW PRUSSIAN OF SODA

PRIME CRYSTALS—HIGH YIELD
Minimum 99% Sodium Ferrocyanide

YELLOW PRUSSIAN OF POTASH



PRIME CRYSTALS
Minimum 99% Potassium Ferrocyanide

Manufactured by
THE AMERICAN CYANAMID COMPANY
Warners, N. J.



HENRY W. PEABODY & CO.
17 State St. New York City

SELLING AGENTS FOR
VICTOR BLAGDEN & CO., LTD., LONDON

VICTOR CHEMICAL WORKS

CHICAGO, ILL.

Tri-Sodium Phosphate

Phosphate of Soda
Epsom Salts
Ammonium Phosphate
Phosphoric and Formic Acids
Oxalic Acid

BRANCHES:
New York
Nashville
St. Louis

SAL AMMONIAC—38 cks., Order, Hamburg
SEAGRASS—100 bls., Bank of America, Hongkong
SENA—23 bls., Brown Bros., Port Sudan; 15 bls., Irving Bank, Port Sudan; 246 bls., Nat. Bank Egypt, Port Sudan; 51 bls., Order, Port Sudan; 16 bls., Brown Bros., Port Sudan; 207 bls., Nat. Bank of Egypt, Port Sudan; 23 bls., Order, Port Sudan
SEEDS—36 bgs., S. D. Woodruff & Sons, Rotterdam; 37 bgs., W. K. Emery, Rotterdam; 5 bgs., Peek & Velsor, Antwerp; **Annatto**, 11 bgs., D. Steengrafe, Ponce; **Paste**, 5 cks., Order, Manchester; **Caraway**, 300 bgs., Vulcan Foreign Commerce Corp., Rotterdam; 100 bgs., C. E. Armstrong, Rotterdam; 300 bgs., Levy & Lewis Co., Rotterdam; 100 bgs., Vulcan Foreign Commerce Corp., Rotterdam; 200 bls., Archibald & Lewis Co., Rotterdam; 300 bls., Scholl Co., Rotterdam; 100 bgs., Vulcan Foreign Commerce Corp., Rotterdam; **Cardamom**, 40 cs., Brown Bros. & Co., Bombay; 13 cs., Corn Exch. Bk., Bombay; 27 cs., Bk. of Amer., Bombay; 93 cs., Order, Bombay; **Castor**, 20,541 bgs., Order, Bombay; 4,000 bgs., F. Matarazzo, Santos; 1,696 bgs., Order, Paramaribo; **Cola**, 200 bgs., Order, Havre; **Cumin**, 500 bgs., Equit. Trust Co., Bombay; 700 bgs., Intern. Bkg. Corp., Bombay; 338 bgs., Irving Bk.-Columbia Trust Co., Bombay; 782 bgs., Order, Bombay; 200 bgs., Order, Bombay; **Dill**, 260 bgs., Equit. Trust Co., Bombay; 240 bgs., Guaranty Trust Co., Bombay; 168 bgs., Order, Bombay; **Flax**, 12,408 bgs., L. Dreyfus & Co., Buenos Aires; 60,175 bgs., Order, Rosario; **Fennel**, 139 bgs., Order, Bombay; **Foenugreek**, 479 bgs., Order, Antwerp; **Fescue**, 20 cks., Order, Auckland; **Mustard**, 200 bgs., Brown Bros. & Co., Bombay; 133 bgs., Irving Bk.-Columbia Trust Co., Bombay; 330 cks., R. F. Downing & Co., London; 150 bgs., Products Agencies, Inc., Rotterdam; 100 bgs., G. T. German, Rotterdam; 972 bgs., Order, London; **Poppy**, 100 bgs., G. T. German, Rotterdam; **Rape**, 300 bgs., G. W. Sheldon & Co., Rotterdam
SHELLAC—300 bgs., Nat. City Bank, Calcutta; 200 bgs., Standard Bank of S. A., Calcutta; 100 bgs., Mech. & Metals Nat.

Bk., Calcutta; 900 bgs., Order, Calcutta; **Refuse**, 165 bgs., Bank of Manhattan Co., Calcutta
SODIUM SALTS—**Bisulfide**, 11 bbls., Brown Bros., Hamburg; **Caustic**, 160 cks., A. Klipstein & Co., Hamburg; **Cyanide**, 40 cs., Amer. British Supplies Co., Liverpool; 168 cs., Asia Bkg. Corp., Havre; **Hyposulfite**, 83 cks., Order, Antwerp; **Nitrate**, 74 cks., Order, Hamburg; **Phosphate**, 57 bbls., A. Klipstein & Co., Antwerp; **Prussiate**, 99 cks., Order, Liverpool; 34 bbls., Order, Hamburg; **Pyrophosphate**, 20 bgs., F. E. Wallach, Havre; **Sulfate**, 100 drs., R. F. Downing & Co., Bristol; 20 drs., J. W. Hampton, Jr. & Co., Bristol; 312 drs., C. S. Grant & Co., Hamburg
SPICES—**Cinnamon**, 100 bls., Order, Colombo; **Cloves**, 725 bls., Order, London; 300 bls., Order, London; 350 bls., Order, Zanzibar; **Ginger**, 300 cs., B. C. Ritchie, Canton; 70 cs., Order, Canton; 600 bgs., Order, Cochinchina; **Chillies**, 371 bls., Gilliant & Co., Mombasa; 250 bls., L. Besson, Mombasa; **Mace**, 27 cs., Calz. Amer. Co., Rotterdam; 20 cs., Order, Singapore; **Nutmegs**, 25 bgs., Colonial Bk., Grenada; 75 bgs., Order, Singapore; **Pepper**, **White**, 84 bgs., Order, Singapore; **Pimento**, 100 cs., Banque Belge, Alicante; 102 cs., F. B. Vandegrift & Co., Alicante
SPONGES—45 cs., D. C. Andrews & Co., London; 45 bls., Nat. Sponge & Chamois Co., Havana; 64 bls., A. Isaac & Co., Havana; 17 bls., J. H. Rhodes & Co., Havana; 102 bls., Lasker & Bernstein, Havana; 6 cs., Wohl Smith Co., Havre
TAPIOCA—300 bgs., Order, Singapore; **Flour**, 371 bgs., Paterson Simon & Co., Penang; 363 bgs., Order, Penang
UMBER—17 cks., L. H. Butcher & Co., Hull
WAX—59 bgs., Bk. of Amer., Alexandria; **Bees**, 5 bgs., G. Preston, San Juan; 9 bgs., J. J. Julia & Co., Santo Domingo; 4 bgs., Internat. Accept. Bk., Santo Domingo; 5 seroons, Cordillera Comm. Co., Puerto Plata; 4 seroons, Porcella Vicini & Co., Monte Cristi; 2 bls., J. J. Julia & Co., Monte Cristi; 302 bgs., Order, Liverpool; **Bees**, 12 cks., T. Norton & Co., Santos; 21 bbls., D. Steengrafe, Santos; 100 bgs., Order,

Havana; 35 bgs., D. Steengrafe, Matanzas
WITHERITE—400 bgs., R. W. Greeff & Co., Newcastle
WOOL GREASE—200 bbls., Hummel & Robinson, Bremen; 100 bbls., Order, Bremen
ZINC-Oxide, 65 bbls., Philipp Bros., Antwerp

IMPORTS AT PHILADELPHIA Feb. 13 to 20.

ACID—**Formic**, 71 carboys, Nat. Bank of Commerce, Hamburg; 192 demijohns, 182 pks., R. W. Greeff & Co., Rotterdam; **Oxalic**, 15 casks, Order, Rotterdam
AMMONIUM CHLORIDE—302 casks, Order, Rotterdam
BARIUM CHLORIDE—71 casks, Goldsmidt Corp., Rotterdam
BARYTES—42 bbls., Order, Hamburg
CHALK—500 tons, black, Brown Bros. & Co., London; 4,450 tons, Southwark Mfg. Co., London
CHINA CLAY—2,659 tons, various consignees, Fowey
FLUORSPAR—380 tons, Shimer & Co., Middleboro; 517 tons, Shimer & Co., Manchester; 507 tons, Order
GLAUBER SALT—105 cks., Order, Hamburg
GLYCERIN—140 drums, Baldwin Shipping Co., Rotterdam
POTASSIUM—**Caustic**, 169 drums, Order, Rotterdam; **Chlorate**, 1,000 casks, Irving Bk.-Columbia Trust Co., Hamburg; **Chloride**, 1,000 bags, Potash Importing Corp., Bremen; **Sulfate**, 500 bags, Potasses d'Alsace, Antwerp
ROOT—**Licorice**, 4,572 bls., MacAndrews & Forbes Co., Tientsin
SAL AMMONIAC—80 bbls., Order, Hamburg
SEEDS—**Cardamom**, 5 cases, Order, London
WOODFLOUR—500 bbls., Order, Rotterdam

IMPORTS AT SAN FRANCISCO Feb. 11 to 16.

ACID—46 casks, Order, Christiania
COPRA—195 tons, Kidder, Peabody & Co., Cebu; 540 tons, Kidder, Peabody Acceptance Corp., Legaspi; 634 tons, El Dorado Oil Works, Legaspi; 28 tons, Kidder, Peabody Acceptance Corp.



Shade—Strength—Solubility

Are Standard qualities
invariably found in

KATIGEN DEEP BLACK GGN

(Concentrated)

A leader among quality dyes

The Grasselli Chemical Co.

Dyestuff Department

117 HUDSON STREET

NEW YORK

Boston

Providence

Philadelphia

Chicago

Charlotte

New Orleans

San Francisco

GUMS—Copal, 96 bags, Order, London
OILS—Olive, 885 cases, Order, London; 30 cases, A. Guirani & Bros.; Wood, 56 drums, Order, Hongkong
KAPOK—240 bales, C. H. Willits & Co., Manila
CASSIA—50 cases, Asia Bank Corp., Hongkong; 257 packages, International Banking Corp., Batavia
CLAY—500 sacks, Balfour, Guthrie & Co., London
GELATIN—20 cases, Bank of California, Rotterdam
BONEMEAL—2,500 bags, H. P. Parker & Co., Hongkong; 1,365 bags, H. P. Parker & Co., Calcutta
GUANO—500 bags, Order, Christiania

LITHOPONE—20 cases, Order, Rotterdam
TAPIOCA—267 bags, Heim, Hall & Co., Batavia

SEEDS—600 bags, Bank of California, Rotterdam; 200 bags, Fidelity International Trust Co., Rotterdam; 2 bgs., California Seed Co., Rotterdam; 25 cs., Portland Seed Co., Rotterdam; 100 cases, Order, Rotterdam; 2 bags, T. Schori, Rotterdam

IMPORTS AT BALTIMORE

Feb. 13 to 20.


MANGANESE ORE—2,000 tons, United States Steel Products Company, Calcutta Maru, Calcutta

MOLASSES—1,300,000 gals., United States Industrial Alcohol Company, Carrabulle, Cienfuegos

POTASH—Manure Salt, 180 tons, Societe Commerciale d'Alsace, Wesserling, Dunkirk; 507 tons, Societe Commercial d'Alsace, Wesserling, Dunkirk; 367 tons, Societe Commerciale d'Alsace, Wesserling, Dunkirk; 1,813 tons, Societe Commerciale d'Alsace, Wesserling, Dunkirk; Murate, 141 tons, 50%, Societe Commerciale d'Alsace, Wesserling, Dunkirk; Sylvanite, 220 tons, 14%, Societe Commerciale d'Alsace, Wesserling, Dunkirk; 1,062 tons, 12%, Societe Commerciale d'Alsace, Wesserling, Dunkirk

Quebracho exports from Paraguay during 1923 amounted to about 37,800 tons, approximately the same as the year before, according to British official reports of the tannin industry of Paraguay.

National Association of Purchasing Agents will meet this year at Boston, during the week of May 19. An exposition of products may be held in connection with this year's convention.



COLUMBIA BRAND

Columbia Chemical Division,
Pittsburg Plate Glass Co., Barberton, Ohio

Caustic Soda

All Tests

Soda Ash

Dense-Light
Granular if Desired

Sole Selling Agents

The Isaac Winkler & Bro. Co.

50 BROAD STREET FIRST NAT'L BANK BLDG.
NEW YORK CINCINNATI

COAL TAR PRODUCTS

CRESYLIC ACID

of our own
Manufacture

JAYNE & SIDEBOTTOM

INCORPORATED


17 BATTERY PLACE NEW YORK CITY

Selling Agents For

COOPERS CREEK CHEMICAL COMPANY

WEST CONSHOHOCKEN, PA.

QUALITY SERVICE



B.G. FEINBERG

111-WATER STREET
NEW YORK CITY

BENZOIC

ACID and SODA

—

ARSENIC

CARBON TETRACHLORIDE

TRUTH VALUE

Nitrate of Soda

Chilean Nitrate Committee

DR. W. S. MYERS, Director

U. S. Delegation

25 MADISON AVE. NEW YORK

**We are Manufacturers and Distributors
of All Grades of Hardwood
Flotation Oils**

**THE
CLEVELAND-CLIFFS IRON COMPANY
UNION TRUST BUILDING
CLEVELAND, OHIO**

When You Buy

B & W

LANOLINE

**You Buy Quality Plus Our
Guarantee to be
100% U. S. P.**

**Odorless, Light in Color, Anhydrous
Uniform, Will Not Turn
Dark With Age**

Manufactured by

THE B & W CO.

INCORPORATED 1918

Bopf & Whittam

Works and Office: Elizabeth, N. J., U. S. A.

Wants & Offers

Rate—All classifications, \$1.00 an issue for 20 words or less, additional words, 5c each, per issue.

Payment—Must accompany order, add 10c if replies are to be forwarded.

Address "Wants & Offers"
DRUG & CHEMICAL MARKETS
 3 Park Place, New York.

BUSINESS OPPORTUNITIES

OILS and TALLOW—Advertiser wants to establish office in Chicago for the sale of vegetable oils for soap and other consuming industries, and for the purchase of tallow, and requires the services of a man capable of managing this business and attending to details. Must be in close touch with soap-makers and packers of Middle West. Address, Soap Tallow, Box 619, DRUG & CHEMICAL MARKETS.

SPACE TO LET—In heavy chemical zone at Elizabeth, manufacturing space at 40c per ft., 12,000 square feet. All or part available. Railroad siding on central. Box 585, DRUG & CHEMICAL MARKETS.

SALES AGENCY—Established sales agent in Boston with a live efficient organization covering mills and factories throughout New England will add one or two lines of established chemical manufacturers. Warehouse and credit facilities are exceptional and sales record bears strictest scrutiny. Box 592, DRUG & CHEMICAL MARKETS.

SALES AGENCY—Experienced and reliable sales agent, in New York, desires to add the products of one or two American manufacturers to his list of clients in the fine chemical, alkaloid, and pharmaceutical specialty fields. Box 598, DRUG & CHEMICAL MARKETS.

ADVERTISING—If you desire to have your Want Ad read by people in the trade, try this page. While the average newspaper is about one or two per cent effective as far as chemical wants are concerned, this page is read 100% by makers, sellers, and buyers of chemicals, drugs, and allied products. Five cents per word—one dollar minimum.

WILL BUY a manufactory of advertised brands with established wholesale distribution. State when brands began, amounts 1922 and 1923 sales and reason for selling. Box 600, DRUG & CHEMICAL MARKETS.

SALES AGENTS WANTED—Established firm dealing extensively in all kinds of Indian products wishes to entertain direct relations with respectable broker or import agent who will sell goods and arrange to open credits. Highest references, commercial and financial, required and exchanged. R. Jayaram & Company, Ltd., 308 Thambu Chetty St., Madras, India. Address mail care Post Box 208, Madras. Cables, Jayaramco, Madras, A. B. C. 5th edition or Bentley's.

BUSINESS OPPORTUNITIES

BENZOL and TURPENTINE agencies for New England desired by a well known Manufacturer's Agency that finances all their sales. Box 610, DRUG & CHEMICAL MARKETS.

PARTNER WANTED—To finance the manufacture of a new line of beverages. This is a high class and lucrative proposition. Would also consider going concern with facilities for marketing such products. Box 608, DRUG & CHEMICAL MARKETS.

SALES AGENT—Experienced manufacturers representative who is aggressive and successful salesman desires to add a thoroughly representative line of essential oils. Can offer a conscientious canvas of the Southern trade backed with a real sales record. Address Atlanta care of DRUG & CHEMICAL MARKETS.

HELP—If you make any medicinal specialties you will be interested in our service to increase sales through drug trade or physicians. We are in a position now to take on a few more accounts and offer a complete nationwide sales, mail and advertising campaign to selected manufacturers. Our charges based on our results for you. Box 595, DRUG & CHEMICAL MARKETS.

BUYING SERVICE—Do you want the services of a thoroughly reliable man to make your purchases in the New York market? If so, I am confident I can serve you well and save money for you in your buying. Let me tell you how and why. Address Broker, DRUG & CHEMICAL MARKETS.

IS ANYONE interested in assisting to finance the larger development of a pharmaceutical specialty of proven therapeutic value which shows a large profit? Box 617, DRUG & CHEMICAL MARKETS.

FOR SALE—Half interest in a commercial laboratory in Southern city with an established and growing clientele. Specializing in analytical work in agricultural chemical field. One partner desires to retire to care for business interests in another field. Proposition must be acceptable to remaining partner and only a high grade chemist of professional and personal standing can be considered. Capital investment in cash need not be great for the right type of man. Box 622, DRUG & CHEMICAL MARKETS.

SITUATIONS WANTED

SALESMAN with ten years experiences in crude and intermediate field desires to make a new connection. Box 618, DRUG & CHEMICAL MARKETS.

CHEMICAL BUYER—Experienced, reliable, familiar with both heavy and fine chemicals and dyes, valuable to either trader or a consumer, is available. Can give highest references and willing to prove worth. Box 621, DRUG & CHEMICAL MARKETS.

SALESMAN—With 8 years technical training and successful experience, selling domestic and imported heavy chemicals seeks opportunity to demonstrate sales ability. Box 606, DRUG & CHEMICAL MARKETS.

CHEMIST—Young German of highest variety of technical and scientific training, Ph.D. degree, and who has had four years working experience in factory laboratory seeks a connection with an American manufacturer of coal-tar chemicals. Willing to work hard and honestly for little salary. Box 589, DRUG & CHEMICAL MARKETS.

CHEMIST—Executive for a number of years in charge of large analytical laboratory desires to make a change either with work in a similar capacity, or advisory, either editorially (advertisements, etc.) or technically (sales force and purchasing departments). Box 605, DRUG & CHEMICAL MARKETS.

A MAN who controls the job you want is most apt to be a regular reader of this column. For real positions in the chemical, drug, dye, oil and allied fields no medium brings better results than these Wants and Offers—5c a word.

SALESMAN—Six years selling to New England textile mills—specialist in industrial soaps—familiar with colors and sizings wants to move to Southern territory because of poor health of wife. Has produced record business and can furnish highest references from present employers as to industry, ability, and honesty. Address Box 594, DRUG & CHEMICAL MARKETS.

PHARMACIST—German, 25, experience in laboratory work, also commercial line as buyer for chemical importers. Speaks 3 languages, wants any position. Box 625, DRUG & CHEMICAL MARKETS.

50 BALLAST CARS

32—Side Bottom Dump, self-clearing,
 37 cubic yards capacity, 100,000#, metal
 arch bar trucks—M. C. B. & I. C. C.

18—Same Design, rebuilt into
 flat bottom gondolas

ZELNICKER IN ST. LOUIS

75 ton Baldwin Saddle Tank

40 ton Baldwin Saddle Tank

21 ton Davenport Saddle Tank, Nearly New

Locomotives, Cars, Piling, Hoists, Rail, Cable

Send for Bulletin 315

STEEL TANKS

30 Vertical Storage Tanks, 20 ft. x 12 ft.
 Write for Bulletin No. 7, listing 800 tanks
 in sizes from 96 gals. to 55,700 gals. Made
 of plates ¼ in. to ½ in. thick. Tanks in
 excellent condition, and priced right.

Let us quote you!

OLD HICKORY POWDER PLANT
 Old Hickory Tennessee

HELP WANTED

MANAGER HEAVY CHEMICAL BUSINESS
—Excellent opportunity for right man who can qualify as manager to handle large chemical import business; must be thoroughly familiar with marketing chemicals in this market and must have wide acquaintance with the trade. Give full references, which will be received in confidence. Box 611, DRUG & CHEMICAL MARKETS.

SALESMAN calling on manufacturers using heavy chemicals. Metropolitan district and Jersey. Sell chemical lime. Box 613, DRUG & CHEMICAL MARKETS.

WANTED—Buyer for New York wholesale drug house, thoroughly familiar with drug and chemical market. Mail full details to Box 616, DRUG & CHEMICAL MARKETS.

TEXTILE CHEMIST—Experienced man required as assistant to chief chemist in large New England mercerizing, dyeing and finishing plant. Only those giving full particulars as to technical training, practical working experience, nationality, references, and salary will be considered. Box 624, DRUG & CHEMICAL MARKETS.

FEMALE BOOKKEEPER, stenographer for chemical jobber, must be experienced on double entry and inventories. Address only, state salary and experience. Box 615, DRUG & CHEMICAL MARKETS.

HELP WANTED

LABORATORY PHARMACIST—Large manufacturer requires services of two bright, well educated, reliable young men with pharmacy training and liking for scientific and analytical work. Positions offer good opportunity for future advancement in a large organization. Box 623, DRUG & CHEMICAL MARKETS.

SALES ASSISTANT—Sales Manager of large company in industrial chemical field seeks assistant for inside work who has had experience on the road. Must be good letter writer and familiar with office methods and reports. College education desirable and ability to meet men necessary. Apply in own handwriting and kindly state case fully in first letter. Box 620, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

IN GENERAL CHEMICALS, including Acetic Anhydride, Dreyfus method, Contact Processes—Chlorination—Chlorine by Magnesia—Manganese—Muriatic Process. Acetation—Methylation—Layout—Operation. Box 612, DRUG & CHEMICAL MARKETS.

WILL ACCEPT reasonable bid on 200 lbs. Ammonium Sulphocyanide, 7 gross Lilac Vegetable Toilet Water, 72,000 Aspirin Tablets. Box 609, DRUG & CHEMICAL MARKETS.

DRUGS & CHEMICALS

WE OFFER Parke, Davis & Co.'s 5 grain Chlorotone Capsules in 100's @ 40c; 500's @ 39c. All originals—delivered. Lawrence Drug Company, 114 Lawrence St., Brooklyn, N. Y.

PLANT EQUIPMENT

WANT 1,000 iron drums, 35 gallons, removable heads, suitable for lime. Box 614, DRUG & CHEMICAL MARKETS.

FOR SALE—100 H. P. Bullock A. C. Squirrel Cage Motor. 220 Volts—204 Amperes—2 Phase—60 cycles—680 R. P. M. Excellent condition. McIlvaine Bros., Inc., 1500 Hamilton St., Phila., Pa.

FOR SALE—Several large and small steam and belt driven air compressors complete equipment, also an assortment of open and closed steel tanks. F. William Stocker, Hoboken, N. J.

WANTED—Single unit vacuum Nitric Acid plant complete. Box 603, DRUG & CHEMICAL MARKETS.

FOR SALE—Carboys, all standard and special sizes. Box 604, DRUG & CHEMICAL MARKETS.

When You Need Technical Assistance

WEISS & DOWNS

Chemists and Chemical Engineers

Chemists Building

50 E. 41st St. New York City

Cresylic Acid

All Grades Pale or Dark

Benzol Phenol Cresol
Creosote Coal Tar Products

Jordan Coal Tar Products Co.

(Incorporated)

13 Cliff Street, N. Y. Telephone Beekman 1758

WORKS: MATAWAN, N. J.

Buffalo Foundry & Machine Company

1579 Fillmore Ave., Buffalo, N. Y.

Manufacturers of

VACUUM DRYERS

EVAPORATORS

CHEMICAL APPARATUS

COPPERSMITHING

New York Office: 17 Battery Place

WOLFF-ALPORT CHEMICAL CORPORATION

DIETHYL-ANILINE ETHYL-BENZYL-ANILINE

Highest Purity

593 IRVING AVENUE
BROOKLYN, N. Y.

TELEPHONE
EVERGREEN 0983

MURIATIC ACID

Charles Lennig & Co., Inc.


Manufacturing Chemists

Office


40 N. Front St.
Philadelphia

Works

Bridesburg
Philadelphia



QUININE
Sulphate — Bisulphate
 Manufactured by
Hoshi Pharmaceutical Co.
 Exclusive Distributors for North & South America
VIETOR & HOSKEN
 160 Pearl St., New York
 Hanover 3224-3225 Cables : Hoskwil



Manufactured by
JOH. A. BENCKISER'S
 Laboratories—Ludwigshafen on Rhine
TARTARIC ACID U. S. P.
 Crystal, Powder, Granular
Sole Agents
W. BENKERT & CO., INC.
 136 Water Street, New York, N. Y.

Payment after passing by
 Department of Agriculture

Telephone John

1995
1996
3421
5256

Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

HEAVY CHEMICALS

American Cyanamid Co.	Jayne & Sidebottom, Inc.
American-British Chem. Supplies	A. Klipstein & Co.
J. T. Baker Chemical Co.	Chas. Lennig & Co., Inc.
Battelle & Renwick	Mathieson Alkali Works, Inc.
C. W. Campbell Co.	Michigan Alkali Co.
Carus Chem. Co.	The Miner-Edgar Co.
Chilean Nitrate Committee	Monsanto Chemical Works
Church & Dwight	Clarence Morgan & Co.
The Cleveland-Cliffs Iron Co.	The New Brunswick Chem. Co.
Chas. Cooper & Co.	Henry W. Peabody & Co.
Diamond Alkali Co.	Norvell Chem. Corp.
The Dow Chemical Co.	Pfaltz & Bauer
E. I. du Pont de Nemours & Co.	A. P. Rippenbein
Ellis Jackson & Co.	Roesler & Hasselacher Chem.
G. G. Feinberg	Robn & Haas Co.
General Chemical Co.	Seaboard Chemical Co.
Grasselli Chemical Co.	E. M. Sergeant Co.
W. F. George Chemicals, Inc.	Solvay Process Co.
Wm. S. Gray & Co.	Sterling Borax Co.
R. W. Greeff & Co.	Eugene Suter & Co.
Harshaw, Fuller & Goodwin Co.	Victor Chemical Works
Industrial Chemical Co.	The Warner Chemical Co.
Innis, Spelden & Co.	Isaac Winkler & Bro. Co.
International Salt Co.	Wishnick-Tumpeier Chemical Co.

FINE CHEMICALS

Abbott Laboratories	A. Klipstein & Co.
The B. & W. Co.	Magnus, Mabce & Reynard, Inc.
Baird & McGuire	Mallinckrodt Chemical Works
J. T. Baker Chemical Co.	Mathieson Alkali Wks., Inc.
W. Benkert & Co.	Mav & Baker
David Berg Industrial Alcohol Co.	Merck & Co.
Carbide & Carbon Chem. Corp.	H. A. Metz & Co.
Carus Chem. Co.	The Miner-Edgar Co.
Chemical Works "Naarden"	Monsanto Chemical Works
Antoine Chiris Co.	Clarence Morgan & Co.
Commonwealth Chemical Corp.	N. Y. Quinine & Chem. Works
Charles Cooper & Co.	The Norvell Chemical Corp.
Darco Sales Corp.	Perth Amboy Chem. Wks.
I. E. Dockendorff & Co.	Pfaltz & Bauer
The Dow Chemical Co.	Powers-Weightman-Rosengarten
Eastman Kodak Co.	B. Presman Company
Electro Bleaching Gas Co.	Roesler & Hasselacher Chem. Co.
B. G. Feinberg	Rhodia Chem. Co.
E. Fougere & Co.	C. P. Schlicke
The Fries & Fries Co.	Sterling Borax Co.
Fritzsche Bros., Inc.	Eugene Suter & Co.
William S. Gray & Co.	Geo. Uhe
Harshaw, Fuller & Goodwin Co.	Ungerer & Co.
Hoffmann-La Roche Chem. Wks.	U. S. Industrial Chemical Co.
Industrial Chemical Co.	Victor Chemical Works
International Salt Co.	Victor & Hosken
Jayne & Sidebottom, Inc.	Wishnick-Tumpeier Chemical Co.

DYESTUFFS

Cable Chem. Works	A. Klipstein & Co.
Calco Chemical Co.	Grasselli Chemical Co.
C. W. Campbell Co.	The Heller & Merz Co.
John Campbell & Co.	H. A. Metz & Co.
Central Dyestuff & Chem. Co.	National Aniline & Chemical Co.
Dow Chemical Co.	The New Brunswick Chem. Co.
Dye Products & Chem. Co.	Newport Chemical Works
E. I. du Pont de Nemours & Co.	The White Tar Aniline Co.
Ellis Jackson & Co.	Wishnick-Tumpeier Chemical Co.

COAL TAR PRODUCTS

Abbott Laboratories	Jordan Coal Tar Products Co.
American-British Chem. Supplies	A. Klipstein & Co.
Baird & McGuire	H. A. Metz & Co.
The Barrett Co.	Monsanto Chemical Works
Calco Chemical Co.	National Aniline & Chemical Co.
John Campbell & Co.	Newport Chemical Works
Dovan Chemical Co.	The Norvell Chemical Corp.
E. I. du Pont de Nemours & Co.	Weiss & Downs
Dye Products & Chem. Co.	The White Tar Aniline Co.
The Heller & Merz Co.	Wolff-Alport Chem. Corp.
Hydrocarbon Prods. Co.	

ESSENTIAL OILS

M. L. Barrett & Co.	Magnus, Mabce & Reynard, Inc.
Belgian Trading Co.	Morana, Incorporated
W. J. Bush & Co.	Clarence Morgan & Co.
Antoine Chiris Co.	Pfaltz & Bauer, Inc.
Delphi Products, Inc.	M. E. Proffitt
I. E. Dockendorff & Co.	Geo. Uhe
The Fries & Fries Co.	Ungerer & Co.
Fritzsche Bros., Inc.	Victor & Hosken

CRUDE DRUGS

W. J. Bush & Co.	Magnus, Mabce & Reynard, Inc.
Hoffmann-La Roche Chem. Wks.	B. Presman Company
M. L. Barrett & Co.	M. E. Proffitt
H. R. Lathrop & Co.	

EQUIPMENT

Armstrong Cork Co.	Old Hickory Powder Plant
Buffalo Foundry & Machine Co.	Walter A. Zelnicker Supply Co.
The Cleveland Cooperage Co.	

THE NEWPORT QUALITY

Coal Tar Products

We have stocks of the following products at Passaic, N. J., ready for immediate shipment:

Alpha Naphthylamine

Ortho Nitro Toluol

Ortho Toluidine

Para Toluidine

Sodium Naphthionate

N W Acid

R Salt

Cleves Acid

Para Nitro Toluol

Tolidine Base

Meta Phenylene Diamine

Meta Toluylene Diamine



Newport Chemical Works, Inc.

Passaic, New Jersey



Painstaking Chemical Control Characterizes Production

of all of our alcohols, esters, and associated products. We are capable of meeting the most exacting specifications of any plant requiring such materials. Conveniently located warehouses insure speedy delivery of standard products, and large well equipped plants, of special materials.

ACETIC ETHER	ETHYL LACTATE
ACETONE	ETHYL OXALATE
AMMONIUM SALTS	ETHYL PHTHALATE
AMYL ACETATE	ETHYLENE
CARBON DIOXIDE	ISOBUTYL ALCOHOL
ETHER, ABSOLUTE	ISOPROPYL ALCOHOL
ETHER, ANESTHESIA	IODINE, DISTILLED
ETHER, U. S. P.	MONACETIN
ETHYL ACETATE	NORMAL PROPYL ALCOHOL
ETHYL ACETO-ACETATE	POTASH SALTS
ETHYL ALCOHOL, ABSOLUTE	POTASSIUM IODIDE
ETHYL ALCOHOL, C. P. 96%	REFINED FUSEL OIL
ETHYL FORMATE	SPECIAL ESTERS
AMYL ALCOHOL	TINCTURE IODINE

U. S. INDUSTRIAL CHEMICAL CO.

Executive Offices, 110 E. 42nd St., New York

Sales Offices and Warehouses

BALTIMORE So. Baltimore BOSTON 131 Beverly St. Boston 14, Mass. BUFFALO 4th and Jersey Sts. CHICAGO 3652 Archer Ave.	CINCINNATI 4609 Eastern Ave. CLEVELAND Perry Payne Bldg. DETROIT Union Trust Bldg. KANSAS CITY 1409 W. 10th St.	NEW ORLEANS Maison Blanche Bldg. NEWARK 238 Wilson Ave. PHILADELPHIA 141 No. Front St. PITTSBURGH Bessemer Building
--	--	--

PURE and DENATURED ALCOHOL

For Manufacturing, Industrial,
Scientific and Technical Purposes

U.S. INDUSTRIAL ALCOHOL CO.

Largest Producers in the World
Executive Offices: 110 E. 42nd Street, New York
Branches in all principal cities

Index To Advertisers

Abbott Laboratories	676
American British Chemical Supplies, Inc.	676
American Cyanamide Co.	680
Armstrong Cork Co.	685
The B. & W. Co.	674
Baird & McGuire	674
J. T. Baker Chemical Co.	658
The Barrett Co.	622, 670
M. L. Barrett Co.	675
Battelle & Renwick	664
Belgian Trading Co.	600
W. Benkert & Co.	688
David Berg Industrial Alcohol Co.	598
Buffalo Foundry & Machine Co.	687
W. J. Bush & Co.	678
Cable Chemical Works	677
Calco Chemical Co.	1st cover
C. W. Campbell	671
John Campbell & Co.	621
Carbide & Carbon Chemical Corp.	685
Carus Chemical Co.	652
Central Dyestuff & Chemical Co.	675
Chemical Works "Naarden"	674
Chilean Nitrate Committee	684
Antoine Chiris Co.	677
Church & Dwight	673
The Cleveland-Cliffs Iron Co.	685
The Cleveland Cooperage Co.	546
Charles Cooper & Co.	653
Darco Sales Corp.	600
Delphi Products, Inc.	674
Diamond Alkali Co.	666
J. E. Dockendorff & Co.	679
Dovan Chem. Corp.	648
The Dow Chemical Co.	619
E. I. du Pont de Nemours & Co., Intermediates Department	687
Dye Products & Chemical Co.	572
Electro Bleaching Gas Co.	660
B. G. Feinberg	681
E. Fougera & Co.	652
The Fries & Fries Co.	681
Fritzsche Bros.	678
General Chemical Co.	654, 661
W. F. George Chemicals, Inc.	659, 663
Grasselli Chemical Co.	472
William S. Gray & Co.	670
W. Greff & Co.	670
Harshaw Fuller & Goodwin Co.	671
The Heller & Merz Co.	646
Hoffmann-LaRoche Chemical Works	657
Hydrocarbon Prods. Co.	653
Industrial Chemical Co.	664
Innis Speiden & Co.	646
International Pulp Co.	669
International Salt Co.	668
Ellis Jackson & Co.	684
Jayne & Sidbottom, Inc.	687
Jordan Coal Tar Products Co.	687
A. Klipstein & Co.	673
H. R. Lathrop & Co.	673
Chas. Lennig & Co.	673
Magnus, Mabey & Reynard, Inc.	662
Mallinckrodt Chemical Works	621
Mathieson Alkali Works	675
May & Baker	639
Merck & Co.	663
H. A. Metz & Co.	663
Michigan Alkali Co.	663
Monasanto Chemical Works	2nd cover, 681
Morana, Incorporated	680
National Aniline & Chemical Co.	630
Newport Chemical Works	689
New Brunswick Chem. Co.	671
New York Quinine & Chemical Works	662
Norvell Chemical Corp.	686
Old Hickory Powder Plant	682
Henry W. Peabody & Co.	611
Pfaltz & Bauer	663
Powers-Weichtman-Rosengarten Co.	587
B. P. Freeman Company	675
M. E. Proffitt	680
Rhodia Chemical Co.	598
A. P. Rippenbein	4th cover
The Roessler & Hasslacher Chemical Co.	650
Rohm & Haas Co.	672
Seaboard Chemical Co.	665
The Selden Co.	581
E. M. Sergeant Co.	674
Sterling Borax Co.	656
Eugene Suter & Co.	673
Geo. Uhe	677
Ungerer & Co.	690
U. S. Industrial Alcohol Co.	690
U. S. Industrial Chemical Co.	682
Victor Chemical Works	688
Victor & Hoeslen	3rd cover
The Warner Chemical Co.	687
Weiss & Downs	612
The White Tar Aniline Corp.	667
Wing & Evans	684
Isaac Winkler & Bro. Co.	648
Wishnick-Tumpeier Chem. Co.	687
Wishnick-Alport Chem. Corp.	687
Walter A. Zelnicker Supply Co.	686

Carbon Tetrachloride



*The
Mark
of
Dependability*

PHOSPHORUS OXYCHLORIDE
CARBON TETRACHLORIDE
SODIUM PHOSPHATE
ACETIC ANHYDRIDE
ALUMINUM HYDRATE
SULPHUR CHLORIDE
PHOSPHORIC ACID
CAUSTIC SODA

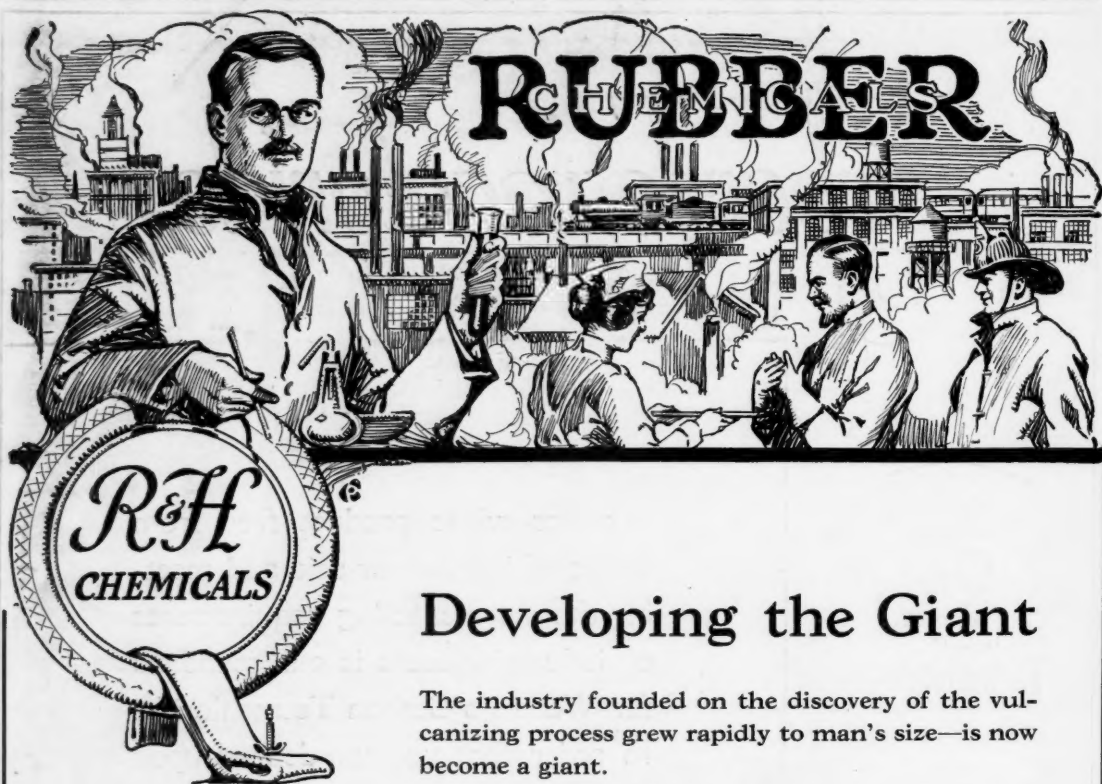
A water white product free from traces of sulphur or acid and meeting the most exacting requirements of industrial users is our standard for Warner's Carbon Tetrachloride. In order that you can depend upon these specifications, we redistill our product and guarantee a purity of 99.7%

THE WARNER CHEMICAL CO.

52 Vanderbilt Avenue New York, N. Y.

Plants: Carteret, N. J.

Exclusive Sales Agents for Westvaco Chlorine Products, Inc.,
So. Charleston, W. Va.



Developing the Giant

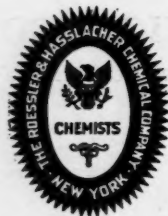
The industry founded on the discovery of the vulcanizing process grew rapidly to man's size—is now become a giant.

Just as a chemical was necessary to the birth of this dominating industry so chemicals since then have been vital to the nourishment of this industrial giant.

This supremacy of chemicals gives added significance to the position held by R & H Chemicals in the rubber industry.

They are esteemed for those qualities which distinguish good chemicals from the ordinary—power of performance and dependable uniformity. If it were needed, the reputation of R & H for reliability would give further assurance of satisfaction.

ACCELERATORS
HEXAMETHYLENE TETRAMINE
FORMALDEHYDE ANILINE
DIPHENYL GUANIDINE
ETHYLIDINE ANILINE
ALDEHYDE AMMONIA
THIOCARBANILID
FORMALDEHYDE
SULPHUR CHLORIDE



42nd Year

The
ROESSLER & HASSLACHER CHEMICAL CO.

[709 SIXTH AVENUE, NEW YORK]

